

WINTER TEMPERATURE DATA FROM FEDERAL WATER POLLUTION CONTROL
ADMINISTRATION (GREAT LAKES - ILLINOIS RIVER BASINS PROJECT)
BUOY STATIONS

LAKE MICHIGAN: WINTERS OF 1962-63 AND 1963-64

LAKE HURON: WINTER OF 1965-66

Vincent E. Noble
and
April Michaelis

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INTRODUCTION

During the course of a previous study of the relation between the winter temperature structure of Lake Michigan and the ice cover on the lake, the winter temperatures were read from thermographs maintained at buoy stations in the lake by the Great Lakes-Illinois River Basins Project of the Federal Water Pollution Control Administration (formerly USPHS). Weekly average temperatures were computed for each of the thermograph records, and were reported by Heap and Noble.¹ This report considered the available winter data from Lake Michigan for the winter seasons of 1962-63 and 1963-64.

During a continuation program, which is currently in progress, the GLIRBP (FWPCA) data were obtained for Lake Huron for the winter season of 1965-66. At the conclusion of this second project (late in 1968) the weekly average temperatures from the stations in Lake Huron will be used in a consideration of the heat budget of Lake Huron.

The temperature recorders were a bourdon-tube-driven stylus scribing on a waxed chart paper. The temperature span was 0°C to 30°C on a 70-mm scale. The chart transport was a clock-driven motor that transported the paper in steps every 30 minutes. The time-base of the recording was a transport of 1/6 cm in 30 minutes. The overall accuracy of carefully calibrated temperature recorders appeared to be about $\pm 0.3^{\circ}\text{C}$. All of the data were read to the nearest indicated 0.1°C , and appropriate temperature corrections were applied from the calibration marks put on the charts before the meters were set on station and again after they were removed from the water. Mechanical failure occurred at some of the recording levels, and some of the functioning meters did not have adequate calibration points. In each case, when uncalibrated instruments are used in the reduction of the data, the inclusion of such instruments is indicated.

For the purposes of this program, the temperature records were read as averages for 90-minute intervals. The time base of the temperature records was then corrected for individual variations in the speed of the several clock motors, and indicated calibration corrections were applied. Each buoy station had a temperature recorder at 10, 15, 22, 30, and 60 meters, and every subsequent 30-m level down to the bottom.

¹Heap, John A., and Vincent E. Noble. 1966. Growth of ice on Lake Michigan. Spec. Rep. No. 26, Great Lakes Res. Div., Univ. of Michigan. 94 p.

The data presented in this summary are the 90-minute readings from each of the thermographs from the GLIRBP buoy stations in Lake Michigan and Lake Huron. Ninety-six thermograph records have been reduced from Lake Michigan and fourteen from Lake Huron. Where possible, both time and temperature corrections are applied to the raw data. Where corrections could not be determined, the raw data are presented.

The information preceding the data summary for each thermograph record contains the following information: Lake, thermograph station number, and the instrument depth at the station; the starting and ending dates and times of the thermograph record; the instrument serial number and the film record number (an internal serial number designating the actual thermograph output); and the initial and final calibrations (the temperature correction terms determined by tests before and after the thermographs are placed on station). Where the thermograph remains constant, the temperature is given for the initial and final periods of the constant temperature interval. For example, the first temperature table on page 6 is interpreted to read as:

DATE	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30
TIME														
0130		2.8	3.1	3.1	3.5	2.6	2.1	2.4	2.8	2.1	2.2	1.1	1.2	1.3
0300		2.8	3.1	3.3	3.3	2.7	2.1	2.4	2.8	2.1	2.1	1.1	1.2	1.3
0430		2.8	3.1	3.5	3.1	2.7	2.1	2.6	2.5	2.1	2.0	1.1	1.2	1.3
0600		2.9	3.1	3.5	3.0	2.8	1.8	2.8	2.4	2.1	1.6	1.1	1.2	1.3
0730		2.8	3.1	3.5	2.9	2.9	1.8	2.8	2.4	2.1	1.5	1.1	1.1	1.3
0900		2.7	3.1	3.6	2.8	3.0	1.8	2.8	2.4	2.1	1.4	1.1	1.1	1.3
1030		2.7	3.1	3.6	2.7	3.1	1.8	2.8	2.5	2.1	1.4	1.1	1.1	1.3
1200		3.8	3.0	3.6	2.6	3.1	2.1	2.8	2.4	2.1	1.3	1.1	0.6	1.3
1330		3.9	2.9	3.6	2.5	2.7	2.4	2.8	2.3	2.1	1.3	1.2	0.6	1.3
1500		3.0	2.8	3.6	2.5	2.5	2.5	2.8	2.3	2.1	1.3	1.2	0.5	1.3
1630	3.3	3.0	2.8	3.6	2.6	2.3	2.5	2.8	2.2	2.1	1.3	1.1	0.5	1.3
1800	3.3	3.0	2.8	3.6	2.6	2.2	2.5	2.8	2.2	2.1	1.3	1.1	0.5	1.3
1930	3.3	3.0	2.8	3.6	2.6	2.1	2.5	2.8	2.1	2.2	1.3	1.1	0.6	1.3
2100	3.2	3.0	2.8	3.6	2.6	2.1	2.5	2.8	2.1	2.2	1.3	1.2	0.7	1.3
2230	3.1	3.0	2.8	3.6	2.6	2.1	2.4	2.8	2.1	2.2	1.3	1.2	1.0	1.3
2400	2.9	3.0	3.0	3.6	2.6	2.1	2.4	2.8	2.1	2.2	1.3	1.2	1.2	1.3

LAKE MICHIGAN DATA

Figure 1 shows the locations of the Great Lakes-Illinois River Basins Project buoy stations on Lake Michigan that have winter temperature data from the 1962-63 and the 1963-64 seasons. Stations 3, 4, 17, 18, 20, and 39 were occupied during the winter of 1962-63. Stations 3, 4, 5, 7, 8, 10, 12, 13, 15, 17, 18, 20, 27, 28, 30, 37, 38, and 40 were occupied during the winter season of 1963-64. Table 1 presents the station latitude, longitude, and water depth for each of the stations.

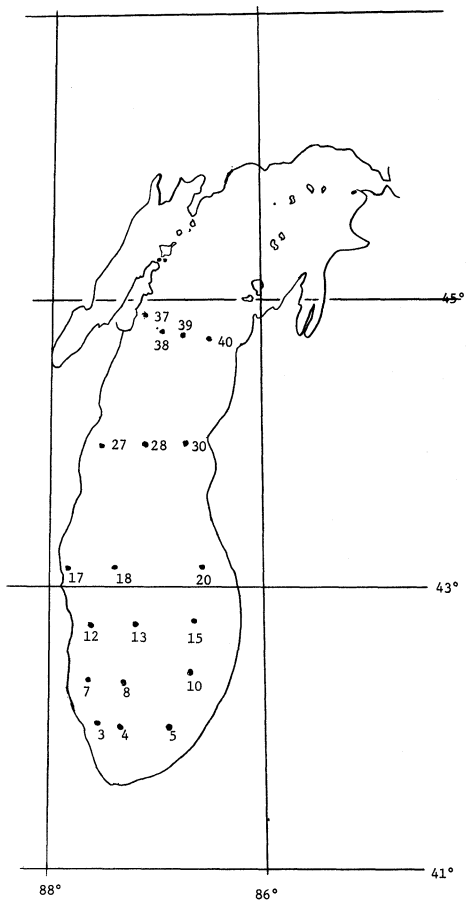


FIG. 1. U. S. Public Health Service temperature stations in Lake Michigan.

TABLE 1. Temperature recording stations, Lake Michigan.

Station	Latitude	Longitude	Depth
3	42°02.5'N	87°32.0'W	16 m
4	42°01.0'N	87°20.0'W	50 m
5	41°59.9'N	87°00.0'W	65 m
7	42°25.0'N	87°45.0'W	23 m
8	42°23.0'N	87°25.0'W	100 m
10	42°23.0'N	86°38.0'W	70 m
12	42°46.0'N	87°42.0'W	22 m
13	42°45.0'N	87°22.0'W	120 m
15	42°44.0'N	86°35.0'W	95 m
17	43°08.0'N	87°51.0'W	30 m
18	43°08.0'N	87°24.5'W	90 m
20	43°08.0'N	86°35.0'W	100 m
27	44°03.0'N	87°33.0'W	45 m
28	44°04.5'N	87°14.5'W	150 m
30	44°04.0'N	86°48.0'W	160 m
37	44°50.0'N	87°09.0'W	25 m
38	44°47.5'N	86°57.5'W	120 m
39	44°45.0'N	86°45.0'W	250 m
40	44°43.0'N	86°31.0'W	210 m

LAKE MICHIGAN - STATION 3. Depth 15 m.

Start 17 December 1962, 1530 CST; end 22 March 1963, 1300 CST.

Instrument serial no. 149, film record 20,004. No temperature correction.

DATE	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30
TIME														
0130		2.8	3.1	3.1	3.5	2.6	2.1	2.4	2.8	2.1	2.2	1.1	1.2	1.3
0300				3.3	3.3	2.7		2.4	2.8		2.1			
0430		2.8		3.5	3.1	2.7	2.1	2.6	2.5		2.0			
0600		2.9			3.0	2.8	1.8	2.8	2.4		1.6		1.2	
0730		2.8		3.5	2.9	2.9					1.5		1.1	
0900		2.7		3.6	2.8	3.0			2.4		1.4		1.1	
1030		2.7	3.1		2.7	3.1	1.8		2.5		1.4		1.1	
1200		2.8	3.0		2.6	3.1	2.1		2.4		1.3	1.1	0.6	
1330		2.9	2.9		2.5	2.7	2.4		2.3			1.2	0.6	
1500			3.0	2.8	2.5	2.5	2.5		2.3			1.2	0.5	
1630	3.3				2.6	2.3			2.2			1.1		
1800						2.2			2.2	2.1			0.5	
1930	3.3					2.1			2.1	2.2		1.1	0.6	
2100	3.2						2.5					1.2	0.7	
2230	3.1		2.8				2.4						1.0	
2400	2.9	3.0	3.0	3.6	2.6	2.1	2.4	2.8	2.1	2.2	1.3	1.2	1.2	1.3
DATE	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13
TIME														
0130	1.3	1.1	1.2	1.7	1.3	1.8	1.7	1.2	1.2	1.4	1.3	1.5	1.3	0.7
0300			1.1	1.7		1.7							1.3	
0430			1.1	1.9		1.8							1.2	
0600			1.2	2.1		1.7				1.4				
0730		1.1	1.2	2.2						1.3		1.5		0.7
0900		1.0	1.3	2.2						1.2		1.4		0.6
1030				2.3										
1200		1.0					1.7					1.4		
1330		1.1		2.3			1.8		1.2		1.3	1.3		
1500			1.3	1.6					1.4	1.2	1.4			
1630			1.4	1.4			1.8			1.3	1.4		1.2	
1800			1.4	1.3		1.7	1.9				1.6		1.0	
1930			1.6	1.2		1.8	2.0				1.6		0.9	
2100	1.3	1.1			1.3		1.9				1.5		0.7	
2230	1.2	1.2	1.6	1.2	1.5	1.8	1.6							
2400	1.2	1.2	1.7	1.3	1.7	1.7	1.5	1.2	1.4	1.3	1.5	1.3	0.7	0.6
DATE	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27
TIME														
0130	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.5
0300														
0430														
0600														
0730			0.4											
0900			0.3											
1030														
1200														0.5
1330														0.4
1500														
1630										0.4				
1800										0.5				
1930														
2100	0.5													
2230	0.4													
2400	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.4

LAKE MICHIGAN, STATION 3, 15 m continued.

DATE	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10
TIME														
0130	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.4	0.3	0.0	0.0	0.1
0300							0.5				0.3			
0430											0.2			
0600														
0730														
0900										0.4				
1030					0.3					0.3				
1200					0.4									
1330											0.2			
1500											0.1			
1630													0.0	
1800													0.1	
1930									0.5					
2100									0.4					
2230	0.4													
2400	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.4	0.3	0.1	0.0	0.1	0.1
DATE	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24
TIME														
0130	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3
0300														
0430														
0600		0.1												
0730		0.2												
0900														
1030														
1200											0.1			
1330											0.2			
1500												0.2		
1630												0.3		
1800														
1930						0.2								
2100						0.1								
2230														
2400	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3
DATE	2-25	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10
TIME														
0130	0.3	0.2	0.1	0.0	0.0	0.0	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
0300														
0430						0.0	0.2							
0600						0.1	0.3							
0730														
0900														
1030														
1200														
1330														
1500														
1630				0.1										
1800				0.0										
1930						0.1								
2100	0.3					0.2								
2230	0.2													
2400	0.2	0.2	0.0	0.0	0.0	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

LAKE MICHIGAN, STATION 3, 15 m continued.

DATE TIME	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24
0130	0.3	0.3	0.4	0.4	0.5	0.6	1.1	1.2						
0300				0.5		0.6								
0430						0.7								
0600														
0730		0.3					1.1							
0900		0.4					1.2							
1030														
1200					0.5	0.7								
1330					0.6	0.8		1.2						
1500						0.9								
1630						1.0		End of record						
1800														
1930														
2100														
2230						1.0								
2400	0.3	0.4	0.4	0.5	0.6	1.1	1.2							

LAKE MICHIGAN - STATION 4. Depth 10 m.

Start 18 December 1962, 0815 CST; end 22 March 1963, 1550 CST.

Instrument serial no. 151, film record 20,008. No temperature correction.

DATE TIME	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31
0130		5.4	5.3	5.1	4.6	4.9	4.8	4.6	4.3	4.2	4.0	3.8	3.8	3.8
0300				5.1			4.7		4.3	4.2			3.8	
0430				5.0			4.6		4.2	4.1			3.9	
0600				5.0	4.6		4.6							
0730				4.9	4.7		4.5							3.8
0900			5.3	4.8	4.7	4.9								3.7
1030	5.3		5.2		4.8	5.0								
1200				4.8	4.9	5.0								
1330				4.9		4.9		4.6						3.7
1500								4.5						3.6
1630				4.9			4.5							
1800				4.8			4.6	4.5						
1930				4.8				4.4						
2100				4.7		4.9		4.3			4.0			
2230		5.4	5.2	4.6		4.8					3.9			
2400	5.3	5.3	5.1	4.6	4.9	4.8	4.6	4.3	4.2	4.1	3.8	3.8	3.9	3.6

LAKE MICHIGAN, STATION 4, 10 m continued.

DATE	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14
TIME														
0130	3.6	2.8	2.6	2.3	1.9	1.4	2.0	3.0	2.6	2.0	2.0	2.0	1.2	1.1
0300	3.4	3.0	2.5			1.5	2.0	2.9	2.4			2.1		1.2
0430	3.3	2.7	2.6	2.3		1.6	2.2	2.8	2.2			2.3	1.2	
0600		2.6	2.4	2.1	1.9	1.6	2.3	2.6	2.3		2.0	2.5	1.1	1.3
0730		2.4	2.4		2.0	1.8	2.2		2.7	2.0	2.1	2.4	1.0	
0900	3.3	2.4	2.6	2.1		1.9	2.4		2.1	2.1	2.2	2.0	1.0	1.3
1030	3.0	2.7	2.7	2.0		1.7	2.4		2.0	2.2	2.2	1.8	0.9	1.4
1200	3.1	2.8	2.4	2.0			2.5				2.3	1.7	1.0	1.5
1330	3.0	2.4	2.2	2.1			2.6			2.2	2.6	1.6		1.6
1500	3.1	2.5	2.2	2.2		1.7	2.7	2.6		2.3	2.6	1.5		1.5
1630	3.1	2.8	2.0		2.0	1.8	2.8	2.7		2.2	2.5	1.4		1.4
1800	3.2	2.6			1.9	1.9	2.8	2.8		2.2	2.3	1.2		1.3
1930	3.3	2.5		2.2	1.7	2.0	2.9	2.8		2.1	2.1			
2100	2.9	2.4		2.1	1.5		3.0	2.7	2.0	2.1	2.0		1.0	
2230	2.6	2.4	2.0	2.0	1.3			2.6	2.1	2.0			1.1	1.3
2400	2.7	2.5	2.2	1.9	1.3	2.0	3.0	2.7	2.1	2.0	2.0	1.2	1.1	1.2
DATE	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28
TIME														
0130	1.2	0.8	1.0	0.9	0.8	1.1	0.8	0.6	0.4	0.3	0.4	0.3	0.3	0.3
0300	1.2	0.7				1.0	0.8							
0430	1.1			0.9			0.7	0.6						
0600	1.1	0.7		0.8				0.5			0.4			
0730	1.0	0.8			0.8						0.3			
0900	1.0	0.9		0.8	0.7	1.0								
1030	0.9	1.0		0.7	0.8	0.9	0.7							
1200	0.8			0.7			0.6							
1330	0.7			0.8				0.5						
1500					0.8	0.9		0.4	0.4					
1630					0.9				0.3	0.3				
1800	0.7		1.0		1.0					0.4				
1930	0.8		0.9											
2100	0.8		0.9			0.9								
2230	0.9		0.8			0.8								
2400	0.8	1.0	0.8	0.8	1.0	0.8	0.6	0.4	0.3	0.4	0.3	0.3	0.3	0.3
DATE	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
TIME														
0130	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.0
0300														
0430														
0600		0.3												
0730		0.2												
0900														
1030							0.1							
1200						0.1	0.2							
1330						0.0								
1500											0.2			
1630						0.0					0.1			
1800		0.2				0.1								
1930		0.1												
2100													0.1	
2230													0.0	
2400	0.3	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.0	0.0

LAKE MICHIGAN, STATION 4, 10 m continued.

DATE	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25
TIME														
0130	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1
0300														
0430														
0600		0.1			0.0									
0730		0.0			0.1									
0900														
1030														
1200											0.0			
1330											0.1			
1500	0.0		0.0											
1630	0.1		0.1											
1800														
1930														
2100											0.1			
2230					0.1					0.0	0.0			
2400	0.1	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1
DATE	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11
TIME														
0130	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.3	0.2
0300														
0430														
0600														0.2
0730														0.3
0900								0.2						
1030								0.1					0.3	
1200										0.1			0.2	
1330										0.2				
1500														
1630														
1800														
1930							0.1					0.2		
2100							0.2					0.3		
2230														
2400	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.3	0.2	0.3
DATE	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	2-23	3-24	3-25
TIME														
0130	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.5	0.7					
0300														
0430														
0600									0.7					
0730									0.6					
0900							0.3							
1030							0.4							
1200								0.5						
1330								0.6						
1500														
1630				0.2						0.6				
1800				0.3										
1930							0.4			Film torn off				
2100							0.5	0.6						
2230								0.7						
2400	0.2	0.2	0.2	0.3	0.3	0.3	0.5	0.7						

LAKE MICHIGAN - STATION 4. Depth 15 m.

Start 18 December 1962, 0815 CST; end 22 March 1963, 1550 CST.

Instrument serial no. 153, film record 20,009. No temperature correction.

DATE	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31
TIME														
0130		5.3	5.2	4.9	4.7	4.7	4.6	4.5	4.4	4.3	4.2	4.0	3.9	3.9
0300				4.9										
0430				4.9										
0600				4.8				4.5						
0730			5.2					4.6	4.4	4.3				3.9
0900	4.9		5.1						4.3	4.2				3.8
1030	5.0						4.6							
1200							4.5					4.0		
1330		5.3				4.6					4.2	3.9		
1500	5.0	5.2		4.8							4.1			
1630				4.7										3.8
1800	5.3		5.1											3.7
1930			5.0					4.6						
2100								4.5						
2230								4.5			4.1			
2400	5.3	5.2	5.0	4.7	4.7	4.6	4.5	4.4	4.3	4.2	4.0	3.9	3.9	3.7
DATE	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14
TIME														
0130	3.7	3.5	2.6	2.4	2.5	2.2	1.9	2.5	2.6	2.3	2.3	2.5	1.7	1.0
0300			2.5	2.4		2.1	1.9					2.4	1.7	
0430			2.7	2.3		2.0	2.1			2.3		2.3	1.6	
0600			2.7	2.3					2.6	2.2		2.3	1.4	
0730	3.7	3.5	2.6	2.4				2.5	2.7			2.2	1.3	
0900	3.6	3.4	2.6	2.5	2.5			2.6	2.7		2.3	2.0		
1030	3.5	3.2	2.5		2.4		2.1		2.6		2.2			
1200		2.8	2.6		2.3	2.0	2.2		2.5		2.1			
1330		2.8	2.6		2.4	2.1	2.3	2.6	2.6		2.0	2.0		
1500		2.9	2.7	2.5				2.4	2.5			2.1		
1630		2.8	2.7	2.4		2.1			2.5			2.2		
1800		2.8	2.6	2.3	2.4	2.0		2.4	2.4	2.2		2.3		
1930		2.9	2.6		2.3		2.3	2.7	2.3	2.3	2.0	2.3	1.3	
2100		2.7	2.5	2.3		2.0	2.4				2.2	2.1	1.2	
2230		2.7		2.4		1.9	2.5	2.7			2.3	1.9	1.1	1.0
2400	3.5	2.6	2.5	2.5	2.3	1.9	2.5	2.6	2.3	2.3	2.4	1.8	1.0	1.1
DATE	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28
TIME														
0130	1.2	0.7	1.0	0.9	0.6	0.7	0.7	0.5	0.4	0.4	0.4	0.3	0.2	0.2
0300	1.2		1.0											
0430	1.3		1.1	0.9										
0600			1.0	1.0					0.4					
0730	1.3				0.6		0.7		0.3				0.2	
0900			1.0		0.7		0.6						0.3	
1030			0.9	1.0		0.7				0.4				
1200				0.8		0.8			0.3	0.3				
1330	1.3			0.7		0.9			0.4				0.3	
1500	1.2					0.9							0.2	
1630	1.1					0.8	0.6				0.4	0.3		
1800	1.1						0.5				0.3	0.2		
1930	1.0						0.5							
2100	1.0	0.7		0.7			0.6							
2230	0.9	0.8		0.6			0.6			0.3				0.2
2400	0.8	0.9	0.9	0.6	0.7	0.8	0.5	0.5	0.4	0.4	0.3	0.2	0.2	0.1

LAKE MICHIGAN, STATION 4, 15 m continued.

DATE	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
TIME														
0130	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.0	0.0
0300	0.1											0.2		
0430	0.2							0.2						
0600								0.1						
0730														
0900													0.0	
1030													0.2	
1200													0.2	
1330												0.2	0.1	
1550												0.1	0.1	
1630				0.1									0.1	
1800				0.2						0.1			0.0	
1930	0.2									0.2		0.1		
2100	0.1										0.2	0.0		
2230											0.1			
2400	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.0	0.0	0.0
DATE	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25
TIME														
0130	0.0	0.1	0.1	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.1
0300										0.1				
0430														
0600				0.1								0.1		
0730				0.2								0.2		
0900		0.1												
1030		0.2			0.2									
1200	0.0				0.1	0.1								
1330	0.1					0.0								
1500														
1630														
1800														
1930														
2100												0.2		
2230		0.2										0.1		0.1
2400	0.1	0.1	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.0
DATE	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11
TIME														
0130	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
0300														
0430														
0600				0.1										
0730				0.0										
0900														
1030														
1200														
1330			0.0											0.2
1500			0.1											0.3
1630														
1800														
1930														
2100														
2230														
2400	0.0	0.0	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3

LAKE MICHIGAN, STATION 4, 15 m continued.

DATE TIME	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25
0130	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3			
0300									0.3					
0430									0.4					
0600								0.3						
0730								0.4			0.3			
0900														
1030														
1200											End of record			
1330														
1500								0.4						
1630								0.3		0.4				
1800										0.3				
1930														
2100														
2230											0.3			
2400	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3				

LAKE MICHIGAN - STATION 4. Depth 22 m.

Start 18 December 1962, 0815 CST; end 22 March 1963, 1550 CST.

Instrument serial no. 152, film record 20,010. No temperature correction.

DATE TIME	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31
0130		5.0	5.0	5.0	4.9	4.9	4.9	4.9	4.5	4.3	4.2	4.1	4.0	4.0
0300									4.4					
0430									4.3					
0600														
0730														
0900	4.5			5.0										
1030				4.9										
1200														
1330								4.9						
1500	4.5							4.8						4.0
1630	5.0							4.8						3.9
1800								4.7		4.3		4.1		3.8
1930								4.6		4.2	4.2	4.0		3.7
2100								4.5			4.1			
2230														
2400	5.0	5.0	5.0	4.9	4.9	4.9	4.9	4.5	4.3	4.2	4.1	4.0	4.0	3.7

LAKE MICHIGAN, STATION 4, 22 m continued.

DATE	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14
TIME														
0130	3.7	3.6	3.2	3.2	3.2	2.8	2.8	2.7	2.7	2.3	2.2	2.1	1.5	1.4
0300														
0430		3.6												
0600		3.5						2.7						
0730		3.3						2.8						
0900											2.2		1.5	
1030	3.7										2.1		1.4	
1200	3.6				3.2									
1330					3.1		2.8					2.1		
1500					3.1		2.7	2.8				2.0		
1630		3.3			3.0			2.7	2.7			1.8		1.4
1800		3.2		3.2	2.9				2.6			1.7		1.3
1930				3.1	2.8							1.6		
2100												1.5		
2230									2.6					
2400	3.6	3.2	3.2	3.1	2.8	2.8	2.7	2.7	2.5	2.3	2.1	1.5	1.4	1.3
DATE	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28
TIME														
0130	1.3	0.9	1.2	1.2	1.1	1.1	1.0	0.6	0.3	0.2	0.2	0.2	0.2	0.2
0300														
0430		0.9				1.1								
0600		1.0				1.0	1.0							
0730	1.3						0.9	0.6						
0900	1.2						0.8	0.5						
1030							0.8	0.4						
1200	1.2	1.0					0.7							
1330	1.1	1.1		1.2				0.4	0.3					
1500	1.0			1.1			0.7	0.3	0.2					
1630	0.9	1.1					0.6							
1800	0.8	1.2												
1930	0.9													
2100														
2230														
2400	0.9	1.2	1.2	1.1	1.1	1.0	0.6	0.3	0.2	0.2	0.2	0.2	0.2	0.2
DATE	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
TIME														
0130	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0
0300														
0430														
0600														
0730														
0900														
1030														
1200													0.1	
1330													0.0	
1500														
1630														
1800														
1930														
2100										0.2				
2230										0.1				
2400	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0

LAKE MICHIGAN, STATION 4, 22 m continued.

DATE	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25
TIME														
0130	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.0
0300														
0430														
0600														
0730		0.0												
0900		0.1									0.1			
1030											0.0			
1200														
1330										0.2				
1500										0.1				
1630														
1800														
1930														
2100			0.1											
2230			0.2											
2400	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0
DATE	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11
TIME														
0130	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1
0300														
0430														
0600			0.1				0.1				0.1			
0730			0.0				0.2				0.2			
0900						0.1								
1030						0.2								
1200														
1330														
1500		0.0												
1630		0.1												
1800				0.0		0.0					0.0			
1930				0.1		0.1					0.1			
2100										0.2				
2230										0.1				
2400	0.0	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
DATE	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25
TIME														
0130	0.1	0.2	0.2	0.2										
0300														
0430														
0600														
0730	0.1													
0900	0.2													
1030														
1200														
1330				0.2										
1500														
1630														
1800														
1930														
2100														
2230														
2400	0.2	0.2	0.2											

Record torn off

LAKE MICHIGAN - STATION 17. Depth 10 m.
 Start 1 December 1962, 1135 CST; end 19 April 1963, 1200 CST.
 Instrument serial no. 104, film record 20,091. No temperature correction.

DATE	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14
TIME														
0130		7.4	6.7	6.5	6.3	6.2	5.6	4.6	3.5	4.5	4.1	2.5	1.7	2.0
0300					6.2	6.2	5.4	4.5	3.7		4.4	2.4		1.9
0430					6.1	6.0	5.3	4.4	4.7		4.4	2.3		1.8
0600		7.4				6.0	5.1	4.3	5.0		4.0	2.1	1.7	1.7
0730		7.3	6.7		6.1	6.1	4.9		5.1	4.5	3.9	2.0	1.6	1.6
0900		7.3	6.5		6.2	6.1	4.8		4.9	4.2		1.9	1.6	1.5
1030		7.2				5.8	4.9		4.6	3.8		1.8	1.7	
1200	7.4	7.1				5.6		4.3	5.1	3.7	3.9			
1330	6.7	7.0				5.9		4.4	4.5	3.8	3.6		1.7	
1500		6.9		6.5		5.8	4.9		3.8	3.7	3.5	1.8	1.9	
1630		6.9		6.4		5.8	4.8		4.6	3.5		1.9		
1800		6.8	6.5	6.4		6.1	4.8		4.6		3.5	1.9	1.9	
1930	6.7		6.6	6.3		6.0	4.7		4.5	3.5	3.4	2.0	2.0	
2100	7.0	6.8	6.6			5.9	4.7	4.4		3.8	3.2	2.0		
2230	7.2	6.7	6.5			5.8	4.6	3.9	4.5	4.2	3.0	1.9		
2400	7.3	6.7	6.5	6.3	6.2	5.6	4.6	3.5	4.4	4.1	2.7	1.7	2.0	1.5

DATE	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28
TIME														
0130	1.5	2.0	2.3	2.3	2.7	1.8	2.5	2.2	2.0	2.0	1.8	2.9	2.4	2.0
0300	1.5			2.2	2.5	1.9		2.1	1.9	2.2	2.1		2.3	2.0
0430	1.6			2.1	2.3	2.1		2.0	1.8		2.4			1.9
0600	1.7				1.8	2.3		2.0			2.6	2.9		1.8
0730			2.3		1.6	2.4	2.5	1.9		2.2	2.8	2.8		1.8
0900			2.4	2.1			2.4			2.1	3.0	2.8	2.3	2.0
1030	1.7		2.5	2.2					1.8	2.2	3.2	2.7	2.2	2.2
1200	1.8			2.3		2.4			1.9	2.0	3.1	2.7	2.1	2.1
1330	1.9			2.5		2.5						2.6	2.0	1.9
1500				2.6										2.0
1630				2.3						2.0	3.1			2.0
1800	1.9	2.0		2.2				1.9		1.9	3.0		1.9	
1930	2.0	2.1	2.5	2.1			2.4	2.0		1.6		2.6	2.0	
2100		2.2	2.4	2.3	1.6		2.3		1.9	1.6		2.5		
2230		2.2	2.4	2.6	1.7				2.0	1.7		2.4		
2400	2.0	2.3	2.3	2.7	1.8	2.5	2.3	2.0	2.0	1.8	3.0	2.5	2.0	2.0

DATE	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
TIME														
0130	2.0	1.8	1.8	1.5	2.4	3.0	2.8	2.5	1.6	2.4	2.4	2.0	2.5	2.4
0300	1.9			1.5	2.5		2.7	2.4				2.2	2.4	
0430				1.4			2.6	2.3				2.4		
0600			1.8	1.5	2.5		2.5	2.2				2.4		2.4
0730	1.9		1.7	1.4	2.6			2.0						2.5
0900	1.7		1.7	1.9	2.7			1.8	1.6					
1030		1.8	1.6	2.3	2.8			1.6	1.7				2.4	
1200		1.9	1.6	2.5	3.0		2.5	1.5	1.9				2.2	
1330	1.7		1.5	2.7	3.3		2.4				2.4		2.0	2.5
1500	1.8					3.0	2.5				2.3		2.1	2.4
1630				2.7		2.9					2.2		2.2	2.5
1800				2.5					1.9		2.2		2.4	
1930				2.1					2.3		2.1		2.5	
2100		1.9		2.5	3.3				2.4		2.1			2.5
2230		1.8		2.3	3.1	2.9					2.2			2.4
2400	1.8	1.8	1.5	2.4	3.0	2.8	2.5	1.5	2.4	2.4	2.0	2.5	2.5	2.4

LAKE MICHIGAN, STATION 17, 10 m continued.

DATE	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25
TIME														
0130	2.4	1.4	1.4	1.2	0.5	0.3	1.0	1.2	0.5	0.4	0.3	0.2	0.0	0.0
0300	2.3	1.3		0.8	0.4		1.2	1.1						
0430	2.2	1.2		0.7	0.4	1.3	1.6	0.9						
0600	2.1		1.4		0.5	1.1	1.5	0.8				0.2		
0730	2.0		1.3	0.7		0.9	1.4	0.7				0.1		
0900		1.2	1.2	0.6		0.8	1.3	0.6						
1030		1.3	1.1	0.5		0.7		0.5						
1200	2.0					0.6		0.5	0.5					
1330	1.9	1.3			0.5	0.5		0.6	0.4					
1500	1.8	1.4	1.1		0.8			0.7				0.1		
1630	1.7		1.2			0.5		0.7	0.4	0.4		0.0		
1800	1.6		1.3		0.8	0.4		0.6	0.5	0.3				
1930	1.5				0.9	0.4		0.5			0.3			
2100					1.0	0.5	1.3				0.2			
2230	1.5				1.2	0.5	1.2							
2400	1.4	1.4	1.3	0.5	1.3	0.8	1.2	0.5	0.5	0.3	0.2	0.0	0.0	0.0
DATE	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8
TIME														
0130	0.0	0.1	0.0	0.0	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.3
0300														
0430								0.1	0.2					
0600				0.0				0.0	0.1	0.1				
0730				0.1							0.2			0.3
0900	0.0			0.2							0.1			0.2
1030	0.1				0.2								0.1	
1200					0.1		0.1						0.2	
1330				0.2			0.2			0.0				
1500				0.3						0.1			0.2	
1630		0.1		0.2				0.0					0.3	
1800		0.0					0.2	0.1		0.1				0.2
1930							0.1	0.2		0.2				0.1
2100														
2230										0.2				
2400	0.1	0.0	0.0	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.3	0.1
DATE	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22
TIME														
0130	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330	0.1													
1500	0.0													
1630														
1800														
1930														
2100														
2230														
2400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LAKE MICHIGAN, STATION 17, 10 m continued.

DATE	2-23	2-24	2-25	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
TIME														
0130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2
0300														
0430														
0600														
0730														
0900							0.0							
1030							0.1							
1200														
1330									0.1					
1500									0.2					
1630														
1800														
1930														
2100														
2230														
2400	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
DATE	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22
TIME														
0130	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
0300	0.1			0.2	0.2				0.2		0.2			
0430			0.2	0.1	0.1				0.1	0.2	0.1			
0600			0.1			0.2				0.1				
0730						0.1						0.1		
0900												0.0		
1030														
1200			0.1							0.1				
1330			0.2	0.1		0.1				0.2				
1500		0.1		0.2	0.1	0.2	0.2					0.0		0.1
1630		0.2			0.2		0.3					0.1		0.2
1800							0.3							
1930							0.2		0.1					
2100									0.2					
2230														
2400	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2
DATE	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5
TIME														
0130	0.2	0.2	0.6	0.5	0.8	0.7	0.6	1.1	1.3	1.3	1.5	1.0	2.5	1.8
0300	0.1				0.8	0.7	0.9	1.1	1.3	1.3	1.5	0.9	2.5	1.7
0430					0.7	0.8	1.0	1.0	1.2	1.2	1.4		2.4	1.5
0600				0.5		1.2	1.1	0.9		1.3	1.4		2.2	1.4
0730			0.6	0.4		1.2	1.1		1.2	1.3	1.5		1.8	1.3
0900			0.5	0.4		0.8	1.0		1.3	1.4	1.6		1.6	
1030				0.3		0.7			1.4	1.4	1.6		1.4	
1200		0.2		0.3	0.7	0.6	1.0	0.9	1.5	1.5	1.5	0.9	1.4	
1330		0.3		0.4	0.8	0.7	1.1	1.0	1.4			1.1	1.7	1.3
1500	0.1						1.2	1.0	1.4			1.1	1.6	1.4
1630	0.2	0.3		0.4			1.2	1.1	1.3			1.2	1.5	1.5
1800		0.4		0.5			1.3				1.5	1.5	1.4	1.6
1930	0.2	0.5		0.7							1.3	1.6	1.3	1.7
2100	0.3	0.5		0.8		0.7	1.3				1.2	2.1	1.3	1.8
2230	0.2	0.6				0.6	1.2	1.1			1.1	2.3	1.3	1.8
2400	0.2	0.6	0.5	0.8	0.8	0.6	1.1	1.2	1.3	1.5	1.0	2.5	1.4	1.9

LAKE MICHIGAN, STATION 17, 10 m continued.

DATE TIME	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19
0130	1.9	1.2	2.0	2.0	1.8	2.2	1.7	2.1	2.1	2.2	2.5	3.1	2.9	3.4
0300				1.9	1.7	2.2	1.6	1.9			2.4	3.2		3.5
0430				1.9		1.9		1.8	2.1		2.3	3.3		3.5
0600	1.9		2.0	1.8	1.7	1.8		1.7	2.2		2.3	3.4		3.6
0730	1.8	1.2	1.9	1.7	1.6	1.8					2.5	3.6		3.7
0900	1.6	1.3			1.5	1.9					2.5	3.7	2.9	3.8
1030	1.5	1.4	1.9	1.7		2.2		1.7			2.3	3.7	3.0	
1200		1.5	2.2	1.5	1.5	2.2	1.6	1.8			2.4	3.9	3.0	3.8
1330		1.6	2.7		1.6	2.4	1.7	2.0		2.2	2.5	4.1	3.1	End
1550	1.5	1.7	3.0	1.5	1.7	2.0	1.7	2.1		2.3	2.6	4.2		
1630	1.6	1.8	3.2	1.8	1.8	1.8	1.8			2.4	2.8	4.0		
1800	1.5	1.8	3.3	2.1	1.8	1.7					3.0	3.6	3.1	
1930	1.4	1.9	2.3			1.7	1.8				3.0	3.2	3.2	
2100	1.2	2.0	2.2	2.1		1.6	1.9			2.4	2.9	3.3	3.2	
2230			2.1	1.9	1.8		2.0			2.3	2.8	3.0	3.3	
2400	1.2	2.0	2.0	1.8	2.0	1.6	2.1	2.1	2.2	2.3	2.9	2.8	3.3	

LAKE MICHIGAN - STATION 18. Depth 10 m.

Start 29 November 1962, 1650 CST; end 20 April 1963, 1000 CST.

Instrument serial no. 119, film record 20,096. Initial cal. 0°C; final cal. none.

DATE TIME	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12
0130		5.9	6.0	6.1	6.3	6.2	6.1	5.9	5.8	5.7	5.5	5.5	5.5	5.2
0300			5.9		6.2		6.1		5.8	5.7			5.5	
0430							6.0	5.9	5.7	5.6	5.5		5.4	5.2
0600								5.8		5.5	5.6			5.1
0730													5.4	
0900													5.3	5.1
1030														5.0
1200				6.1										
1330				6.2	6.2		6.0							
1500				6.3	6.3		5.9							
1630		5.9											5.3	
1800	5.9	6.0	5.9			6.2							5.2	
1930			6.0			6.2								
2100					6.3	6.2								
2230			6.0		6.2	6.1					5.6			5.0
2400	5.9	6.0	6.1	6.3	6.2	6.1	5.9	5.8	5.7	5.5	5.5	5.5	5.2	4.6

LAKE MICHIGAN, STATION 18, 10 m continued.

DATE	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26
TIME														
0130	5.1	4.6	4.6	4.5	4.5	4.5	4.6	4.5	4.5	4.4	4.4	4.2	4.3	4.3
0300	5.1										4.3	4.2		
0430	5.0											4.3		
0600	5.0													
0730	4.9													
0900	4.8													4.3
1030	4.9	4.6								4.4				4.2
1200	4.8	4.7								4.3		4.3		
1330	4.7											4.4		
1500	4.8						4.6			4.3				
1630	4.7						4.7			4.4				
1800							4.7							
1930		4.7					4.6				4.3		4.4	4.2
2100		4.6									4.2		4.3	4.1
2230											4.2			
2400	4.7	4.6	4.6	4.5	4.5	4.5	4.6	4.5	4.5	4.4	4.2	4.3	4.3	4.1
DATE	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
TIME														
0130	4.1	4.0	3.6	3.5	3.4	3.3	3.3	3.5	3.5	3.5	3.5	3.5	3.5	3.4
0300		3.9												
0430		3.8			3.4								3.5	
0600	4.1			3.5	3.3								3.4	
0730	4.0	3.8		3.4			3.3							
0900		3.7					3.4							
1030													3.4	
1200			3.6										3.5	
1330			3.5											
1500														
1630														
1800		3.7												
1930		3.6					3.4							
2100							3.5						3.5	
2230													3.4	
2400	4.0	3.6	3.5	3.4	3.3	3.3	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.4
DATE	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23
TIME														
0130	3.4	3.3	3.1	3.0	3.0	3.0	2.8	2.7	2.7	2.5	2.6	2.1	1.9	1.8
0300					3.0	3.0			2.7			2.1	2.0	
0430					3.1	2.9			2.6		2.6	2.0		
0600											2.5	1.9		
0730														
0900			3.1							2.5	2.5			
1030			3.0		3.0					2.6	2.4	1.9		
1200		3.3		3.1			2.8				2.4	1.8		
1330		3.2		3.1			2.7				2.3		2.0	
1500				3.0									1.9	
1630										2.6				
1800					3.1	2.9			2.6	2.5	2.3			1.8
1930					3.0	2.8			2.6	2.6	2.2			1.7
2100		3.4	3.2						2.6				1.9	
2230	3.3	3.1							2.5		2.2	1.8	1.8	
2400	3.3	3.1	3.0	3.0	3.0	2.8	2.7	2.7	2.5	2.6	2.1	1.9	1.8	1.7

LAKE MICHIGAN, STATION 18, 10 m continued.

DATE	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6
TIME														
0130	1.6	1.5	1.4	1.2	1.2	1.2	1.1	0.9	0.6	0.7	0.5	0.5	0.7	0.7
0300	1.6							0.9		0.7				
0430	1.5							0.8		0.6				
0600		1.5	1.4			1.2		0.7		0.5			0.7	0.7
0730		1.4	1.3			1.1				0.6			0.6	0.8
0900			1.2						0.6					
1030									0.5					
1200								0.7			0.5			
1330				1.2				0.6			0.6			
1500				1.3										
1630										0.6				
1800		1.4					1.1			0.5	0.6	0.5		
1930		1.5					1.0				0.5	0.6		
2100		1.5						0.6	0.5					0.8
2230		1.4						0.5	0.6					0.7
2400	1.5	1.4	1.2	1.3	1.2	1.1	1.0	0.6	0.7	0.5	0.5	0.6	0.6	0.7
DATE	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20
TIME														
0130	0.7	0.7	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.2	0.2	0.1	0.2	0.1
0300	0.6	0.7			0.3	0.3	0.2	0.3	0.2	0.1				
0430		0.6			0.4			0.2		0.2				
0600		0.5												
0730														
0900		0.5								0.2				
1030		0.4								0.1				
1200	0.6						0.2			0.0		0.1		
1330	0.7						0.3			0.1		0.2		
1500								0.2						0.1
1630								0.3						0.2
1800														
1930			0.3							0.1				
2100			0.4							0.2	0.2		0.2	
2230		0.4									0.1		0.1	0.2
2400	0.7	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.1	0.2	0.1	0.1
DATE	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5	3-6
TIME														
0130	0.1	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0
0300			0.1		0.0			0.1						
0430			0.0		0.1			0.0						
0600													0.1	
0730													0.0	
0900	0.1	0.0												0.0
1030	0.0	0.1												0.1
1200														
1330								0.0						
1500					0.1			0.1	0.1			0.0		
1630					0.0				0.0			0.1		
1800					0.0									
1930					0.1									0.1
2100														0.0
2230														
2400	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0

LAKE MICHIGAN, STATION 18, 10 m continued.

DATE	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20
TIME														
0130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0300														
0430													0.0	
0600													0.1	
0730														
0900														
1030														0.1
1200														0.0
1330														0.0
1500														0.1
1630														
1800										0.0				
1930										0.1				
2100										0.1				0.1
2230										0.0				0.0
2400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
DATE	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3
TIME														
0130	0.0	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4
0300				0.2										
0430														
0600														
0730														
0900														
1030		0.1				0.2								0.4
1200		0.2			0.2	0.1								0.3
1330					0.3									0.4
1500														
1630														
1800								0.2					0.3	
1930					0.3			0.3					0.4	
2100					0.2	0.1		0.3		0.2				
2230	0.0					0.2		0.2	0.2	0.3				
2400	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4
DATE	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17
TIME														
0130	0.4	0.5	0.4	0.4	0.5	0.5	0.6	0.7	0.6	0.7	0.7	0.7	0.9	1.0
0300														
0430		0.5								0.7	0.7			
0600		0.4	0.4							0.6	0.8	0.7		
0730			0.3							0.7		0.8		
0900			0.3								0.8			
1030			0.4								0.7		0.9	
1200													1.0	
1330								0.7		0.7		0.9		
1500								0.6		0.6				
1630														
1800									0.6					
1930						0.5			0.7				1.0	
2100	0.4					0.6							1.1	
2230	0.5						0.6							
2400	0.5	0.4	0.4	0.4	0.5	0.6	0.7	0.6	0.7	0.6	0.7	0.9	1.1	1.0

LAKE MICHIGAN, STATION 18, 10 m continued.

DATE	4-18	4-19	4-20	4-21	4-22	4-23	4-25	4-26	4-27	4-28	4-29	4-30	5-1	5-2
TIME														
0130	1.0	1.1												
0300		1.0												
0430		1.1												
0600		1.0												
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800		1.0												
1930		1.1												
2100														
2230	1.0	1.1												
2400	1.1	End												

LAKE MICHIGAN - STATION 18. Depth 15 m.

Start 29 November 1962, 1650 CST; end 20 April 1963, 1000 CST.

Instrument serial no. 105, film record 20,097. No temperature correction.

DATE	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12
TIME														
0130		6.3	6.2	6.2	6.4	6.4	6.4	6.2	6.0	6.0	5.8	5.8	5.8	5.5
0300														
0430		6.3		6.2						6.0				5.5
0600		6.2		6.3						5.9			5.8	5.6
0730										5.9			5.7	
0900										5.8			5.7	
1030													5.6	
1200							6.4	6.2						
1330							6.3	6.1						
1500				6.3										5.6
1630				6.4	6.4									5.5
1800	6.3				6.5			6.1			5.8			
1930					6.5			6.0			5.7			
2100					6.4		6.3				5.8			
2230							6.2						5.6	
2400	6.3	6.2	6.2	6.4	6.4	6.4	6.4	6.2	6.0	6.0	5.8	5.8	5.5	5.5

LAKE MICHIGAN, STATION 18, 15 m continued.

DATE	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26
TIME														
0130	5.5	5.3	5.1	5.2	5.1	5.0	5.1	5.1	5.0	5.0	5.0	4.8	4.7	4.7
0300				5.1										
0430			5.1			5.0			5.0					
0600	5.5		5.2			5.1			5.1					
0730	5.4													
0900											5.0			
1030											4.9			
1200	5.4	5.3											4.7	
1330	5.3	5.2										4.8	4.6	
1500									5.1	5.0		4.7		
1630									5.0	4.9				
1800										4.9			4.6	
1930										5.0			4.7	
2100								5.1						4.7
2230					5.1			5.0						4.6
2400	5.3	5.2	5.2	5.1	5.0	5.1	5.1	5.0	5.0	5.0	4.9	4.7	4.7	4.6
DATE	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
TIME														
0130	4.6	4.8	4.4	4.1	4.1	4.0	3.9	4.0	4.0	3.9	3.9	4.0	4.0	3.9
0300					4.1			3.9					3.9	
0430	4.6				4.0		3.9						3.9	
0600	4.7						4.0						4.0	
0730		4.8	4.4											
0900	4.7	4.4	4.3											
1030	4.6													
1200			4.3											
1330			4.2											
1500						4.0								
1630						3.9		3.9			3.9			3.9
1800								4.0	4.0		4.0			4.0
1930									3.9					
2100			4.2											
2230	4.6		4.1										4.0	
2400	4.5	4.4	4.1	4.1	4.0	3.9	4.0	4.0	3.9	3.9	4.0	4.0	3.9	4.0
DATE	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23
TIME														
0130	4.0	3.9	3.7	3.5	3.5	3.4	3.1	3.0	2.9	2.9	2.9	2.7	2.4	2.4
0300												2.6	2.4	
0430					3.5	3.4							2.5	
0600		3.9			3.6	3.3	3.1							
0730		3.8	3.7		3.5		3.0							
0900			3.6											2.4
1030														2.3
1200											2.9			
1330						3.3					2.8	2.6		
1500						3.2					2.8	2.5		
1630	3.0		3.6					3.0			2.7	2.5		
1800	3.9		3.5	3.5				2.9				2.4		
1930		3.8	3.6	3.4										
2100		3.7	3.5	3.4									2.5	
2230				3.5	3.5	3.2							2.4	2.3
2400	3.9	3.7	3.5	3.5	3.4	3.1	3.0	2.9	2.9	2.9	2.7	2.4	2.4	2.2

LAKE MICHIGAN, STATION 18, 15 m continued.

DATE	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6
TIME														
0130	2.2	2.0	1.9	1.8	1.8	1.8	1.7	1.6	1.3	1.2	1.2	1.1	1.2	1.2
0300														
0430	2.2							1.6				1.1		
0600	2.1							1.5				1.2		
0730											1.2			
0900	2.1					1.8					1.1			
1030	2.0					1.7								
1200														
1330									1.3				1.2	
1500									1.2				1.1	
1630								1.5					1.1	
1800								1.4					1.2	
1930														
2100		2.0	1.9											
2230		1.9	1.8				1.7	1.4						
2400	2.0	1.9	1.8	1.8	1.8	1.7	1.6	1.3	1.2	1.2	1.1	1.2	1.2	1.2
DATE	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20
TIME														
0130	1.2	1.2	1.1	1.0	1.1	1.0	0.9	0.8	0.7	0.8	0.7	0.6	0.6	0.7
0300									0.8					0.7
0430				1.0										0.6
0600		1.2		1.1										
0730		1.1			1.1									
0900					1.0									
1030			1.1											
1200			1.0			1.0					0.7			
1330						0.9	0.9			0.8	0.6			
1500							0.8			0.7				
1630											0.6			
1800											0.7			
1930														
2100											0.7		0.6	
2230								0.8			0.6		0.7	0.6
2400	1.2	1.1	1.0	1.1	1.0	0.9	0.8	0.7	0.8	0.7	0.6	0.6	0.7	0.5
DATE	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5	3-6
TIME														
0130	0.5	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
0300		0.2												
0430														
0600														
0730														
0900														
1030	0.5													
1200	0.4													
1330			0.2											
1500			0.1											
1630	0.4													
1800	0.3													
1930														
2100							0.1							
2230							0.2							
2400	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

LAKE MICHIGAN, STATION 18, 15 m continued.

DATE	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20
TIME														
0130	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1
0300			0.2											0.1
0430				0.2									0.1	0.2
0600				0.1									0.2	
0730														
0900														
1030		0.2	0.2											
1200		0.1	0.1											
1330											0.2			
1500											0.1			
1630														0.2
1800		0.1											0.2	0.1
1930		0.2											0.1	
2100			0.1											
2230		0.2	0.2											
2400	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1
DATE	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3
TIME														
0130	0.1	0.2	0.2	0.2	0.4	0.4	0.5	0.4	0.4	0.3	0.3	0.4	0.3	0.4
0300													0.4	
0430									0.4					
0600	0.1								0.3					
0730	0.2													
0900														0.4
1030				0.2								0.4		0.5
1200				0.3								0.3		
1330				0.4										
1500														
1630											0.3			
1800											0.4			
1930														
2100							0.5							
2230							0.4							
2400	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.4	0.5
DATE	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17
TIME														
0130	0.5	0.6	0.6	0.8	0.8	0.9	0.8	0.9	0.9	1.0	1.1	1.2	1.3	1.2
0300													1.2	
0430				0.8									1.2	
0600				0.7									1.3	
0730			0.6							1.0				
0900			0.7							1.1				
1030									0.9					
1200									1.0				1.2	
1330			0.7			0.9	0.8				1.1		1.1	
1500			0.8								1.2			
1630	0.5												1.1	
1800	0.6			0.7			0.8						1.2	1.2
1930				0.8			0.9							1.1
2100					0.8									
2230					0.9									
2400	0.6	0.6	0.8	0.8	0.9	0.8	0.9	0.9	1.0	1.1	1.2	1.3	1.2	1.1

LAKE MICHIGAN, STATION 18, 15 m continued.

DATE	4-18	4-19	4-20	4-23	4-24	4-25	4-26	4-27	4-28	4-29	4-30	5-1	5-2	5-3
TIME														
0130	1.1	1.1	1.1	1.3										
0300		1.0		1.3										
0430														
0600				End of										
0730				record										
0900			1.1											
1030			1.2											
1200														
1330														
1500														
1630														
1800														
1930														
2100			1.2											
2230		1.0	1.3											
2400	1.1	1.1	1.3											

LAKE MICHIGAN - STATION 18. Depth 22 m.

Start 29 November 1962, 1650 CST; end 20 April 1963, 1000 CST.

Instrument serial no. 113, film record 20,098. No temperature correction.

DATE	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12
TIME														
0130		6.1	6.1	6.3	6.6	6.8	6.6	6.3	6.0	6.0	5.8	5.9	5.7	5.6
0300				6.3			6.6	6.3		6.0	5.8			
0430				6.4			6.4	6.2		5.9	5.9			
0600				6.4			6.4	6.2		5.9		5.9	5.7	5.6
0730				6.5			6.3	6.1		5.8		5.8	5.6	5.5
0900				6.5										
1030				6.6										
1200														
1330					6.6									
1500				6.6	6.7									
1630				6.7	6.6									
1800	6.0							6.1		5.8				
1930	6.0				6.6			6.0		5.7				
2100	6.1				6.8	6.8				5.7		5.8		
2230						6.7				5.8		5.7		
2400	6.1	6.1	6.1	6.7	6.8	6.7	6.3	6.0	6.0	5.8	5.9	5.7	5.6	5.5

LAKE MICHIGAN, STATION 18, 22 m continued.

DATE	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26
TIME														
0130	5.5	5.2	5.2	5.1	5.1	5.0	5.1	5.1	5.0	4.9	4.9	4.8	4.7	4.8
0300							5.1							
0430							5.2							
0600	5.5				5.1									4.8
0730	5.4				5.0									4.7
0900														
1030														
1200	5.4												4.7	
1330	5.3												4.8	
1500	5.3					5.0			5.0			4.8		
1630	5.2					5.1			4.9			4.7		
1800											4.9			
1930											4.8			
2100			5.2				5.2							4.7
2230			5.1				5.1							4.6
2400	5.2	5.2	5.1	5.1	5.0	5.1	5.1	5.1	4.9	4.9	4.8	4.7	4.8	4.6
DATE	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
TIME														
0130	4.6	4.6	4.8	4.6	4.1	4.0	4.0	4.0	4.0	4.0	3.8	3.8	3.7	3.8
0300					4.1			4.0						
0430					4.0			4.1						
0600														
0730														
0900	4.6			4.6			4.0							
1030	4.5			4.5			3.9							
1200		4.6	4.8							4.0				
1330		4.7	4.6							3.9				
1500	4.5			4.5								3.8	3.7	
1630	4.6			4.4								3.7	3.8	
1800				4.4						3.9				
1930		4.8		4.3						3.8				
2100				4.3			3.9	4.1		3.8				
2230				4.1			4.0	4.0						
2400	4.6	4.8	4.6	4.1	4.0	4.0	4.0	4.0	4.0	3.8	3.8	3.7	3.8	3.8
DATE	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23
TIME														
0130	3.8	3.6	3.4	3.3	3.3	3.1	3.0	2.8	2.8	2.7	2.7	2.3	2.5	2.3
0300	3.8					3.1	3.0							
0430	3.7					3.0	2.9							
0600			3.4		3.3									
0730			3.3		3.2									
0900										2.7				
1030										2.8				
1200											2.7			
1330											2.6			
1500										2.8		2.3	2.5	2.3
1630										2.9		2.4	2.4	2.2
1800		3.6			3.2					2.9	2.6		2.4	2.2
1930		3.5			3.1					2.8	2.5		2.3	2.1
2100	3.7						2.9				2.5			2.1
2230	3.6						2.8				2.4			2.0
2400	3.6	3.5	3.3	3.3	3.1	3.0	2.8	2.8	2.8	2.8	2.4	2.4	2.3	2.0

LAKE MICHIGAN, STATION 18, 22 m continued.

DATE	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6
TIME														
0130	2.0	2.0	2.0	1.9	1.9	1.8	1.7	1.7	1.2	1.2	1.0	1.1	1.2	1.4
0300			2.0		1.9	1.8		1.7			1.0			
0430			2.1		1.8	1.7		1.6			1.1			
0600			2.1										1.2	
0730			2.0										1.3	
0900							1.7	1.6	1.2					
1030							1.8	1.5	1.1					
1200								1.5			1.1			
1330								1.4			1.2			
1500										1.2		1.1		
1630										1.1		1.2		
1800								1.4	1.1	1.1			1.3	
1930								1.3	1.2	1.0			1.4	
2100		2.0	2.0				1.8				1.2			1.4
2230		1.9	1.9				1.7				1.1			1.3
2400	2.0	1.9	1.9	1.9	1.8	1.7	1.7	1.3	1.2	1.0	1.1	1.2	1.4	1.3
DATE	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20
TIME														
0130	1.3	1.2	0.9	0.9	1.0	0.9	0.7	0.7	0.6	0.5	0.5	0.5	0.5	0.4
0300	1.3					0.9								
0430	1.2					0.8								
0600		1.2												
0730		1.1												
0900					1.0									
1030					0.9									
1200		1.1												
1330		1.0												
1500				0.9			0.7	0.7						0.4
1630				1.0			0.8	0.6						0.3
1800							0.8		0.6					
1930							0.7		0.5					
2100		1.0						0.6					0.5	0.3
2230		0.9						0.7					0.4	0.2
2400	1.2	0.9	0.9	1.0	0.9	0.8	0.7	0.7	0.5	0.5	0.5	0.5	0.4	0.2
DATE	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5	3-6
TIME														
0130	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
0300	0.2													
0430	0.1													
0600						0.1								
0730						0.2								
0900	0.1					0.2								
1030	0.0					0.1								
1200		0.0								0.1		0.1		
1330		0.1								0.2		0.2		
1500														
1630														
1800										0.2				
1930										0.1				
2100														
2230														
2400	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2

LAKE MICHIGAN, STATION 18, 22 m continued.

DATE	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20
TIME														
0130	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.2
0300											0.1		0.1	
0430											0.0		0.0	
0600											0.0		0.0	
0730											0.1		0.1	
0900														
1030														
1200										0.2				0.2
1330										0.1				0.3
1500					0.3	0.2	0.3							0.3
1630					0.2	0.3	0.2							0.2
1800														
1930														
2100	0.2													
2230	0.3													
2400	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2
DATE	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3
TIME														
0130	0.2	0.0	0.4	0.8	0.8	0.8	0.6	0.5	0.7	0.6	0.6	0.6	0.7	0.8
0300		0.0												
0430		0.1												
0600	0.2	0.1	0.4		0.8									
0730	0.1	0.2	0.5		0.7									
0900		0.2	0.5		0.7		0.6	0.5						
1030		0.3	0.6		0.8		0.5	0.6						
1200			0.6					0.6	0.7			0.6		
1330			0.7					0.7	0.6			0.7		
1500			0.7			0.8							0.7	
1630			0.8			0.7							0.8	
1800						0.7								
1930						0.6								
2100		0.3												
2230		0.4												
2400	0.1	0.4	0.8	0.8	0.8	0.6	0.5	0.7	0.6	0.6	0.6	0.7	0.8	0.8
DATE	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17
TIME														
0130	0.8	0.8	1.0	1.0	1.0	1.0	1.1	1.3	1.4	1.4	1.4	1.4	1.3	1.3
0300		0.8				1.0						1.4		
0430		0.9				1.1						1.3		
0600														
0730														
0900							1.1							
1030							1.2							
1200														
1330														
1500		0.9						1.3						1.3
1630		1.0						1.4						
1800														Data
1930														Ends
2100														
2230														
2400	0.8	1.0	1.0	1.0	1.0	1.1	1.2	1.4	1.4	1.4	1.4	1.3	1.3	

LAKE MICHIGAN - STATION 18. Depth 30 m.
 Start 29 November 1962, 1650 CST; end 20 April 1963, 1000 CST.
 Instrument serial no. 115, film record 20,099. No temperature correction.

DATE	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12
TIME														
0130		6.5	6.5	6.5	6.3	6.4	6.5	6.6	6.2	6.2	6.1	5.9	6.0	5.9
0300														
0430						6.4			6.2					
0600						6.5			6.3		6.1			
0730								6.6		6.2	6.0	5.9		5.9
0900								6.5		6.1	6.0	6.0	6.0	5.8
1030											5.9		5.9	
1200									6.3					
1330			6.5						6.2					
1500			6.4											5.8
1630														5.7
1800	6.7													5.6
1930	6.5		6.4					6.5						
2100			6.5		6.3			6.4						
2230					6.4		6.5							
2400	6.5	6.5	6.5	6.5	6.4	6.5	6.4	6.4	6.2	6.1	5.9	6.0	5.9	5.6
DATE	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26
TIME														
0130	5.6	5.5	5.4	5.2	5.2	5.1	5.2	5.1	5.1	5.1	5.1	5.0	4.8	4.7
0300			5.4			5.1						4.9		
0430			5.3			5.1	5.2							
0600						5.2	5.1							
0730														
0900														
1030		5.5												
1200		5.6									5.1			
1330		5.7									5.0			
1500					5.2									
1630	5.6	5.7			5.1									
1800	5.5	5.6	5.3											
1930		5.5	5.2									4.9	4.8	4.7
2100		5.4										4.8	4.7	4.6
2230														
2400	5.5	5.4	5.2	5.2	5.1	5.2	5.1	5.1	5.1	5.1	5.0	4.8	4.7	4.6
DATE	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
TIME														
0130	4.6	4.5	4.5	4.4	4.3	4.2	4.1	4.0	4.0	3.9	3.9	4.1	4.0	3.9
0300		4.5												
0430		4.6						4.0			3.9		4.0	
0600		4.7						3.9			4.0		4.1	
0730							4.1							
0900							4.0							
1030			4.5					3.9				4.1		
1200			4.4					4.0				4.0		
1330	4.6		4.4											
1500	4.5		4.5			4.2					4.0		4.1	
1630				4.4		4.1			4.0		4.1		4.0	
1800				4.3	4.3				3.9					
1930		4.7	4.5		4.2									
2100		4.6	4.4										4.0	
2230		4.6											3.9	
2400	4.5	4.5	4.4	4.3	4.2	4.1	4.0	4.0	3.9	3.9	4.1	4.0	3.9	3.9

LAKE MICHIGAN, STATION 18, 30 m continued.

DATE	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23
TIME														
0130	3.9	4.0	3.9	3.9	3.9	3.7	3.4	3.4	3.4	3.2	3.1	3.0	3.0	3.0
0300	4.0			4.0										
0430										3.2				
0600				4.0						3.1				
0730				3.9		3.7								
0900						3.6			3.4					
1030									3.3					
1200					3.9	3.6								
1330					3.8	3.5			3.3		3.1			
1500									3.2		3.0			
1630														
1800		4.0				3.5								
1930		3.9			3.8	3.4								
2100					3.7									3.0
2230														2.9
2400	4.0	3.9	3.9	3.9	3.7	3.4	3.4	3.4	3.2	3.1	3.0	3.0	3.0	2.9
DATE	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6
TIME														
0130	2.9	2.6	2.6	2.5	2.2	1.9	2.0	2.0	1.9	1.7	1.6	1.7	1.6	1.2
0300					2.2		2.0		1.9				1.6	
0430					2.1		2.1		1.8				1.5	1.2
0600					2.1		2.2						1.7	1.3
0730	2.9				2.0								1.6	
0900	2.8			2.5	2.0								1.5	
1030			2.6	2.4	1.9									
1200			2.5					2.0						
1330	2.8							1.9					1.5	
1500	2.7						2.2						1.4	
1630							2.1			1.7			1.3	
1800							2.0			1.6			1.3	
1930				2.4					1.8				1.2	
2100				2.3		1.9			1.7		1.6	1.7	1.3	
2230	2.7			2.2		2.0					1.7	1.7	1.2	1.3
2400	2.6	2.6	2.5	2.2	1.9	2.0	2.0	1.9	1.7	1.6	1.7	1.6	1.2	1.2
DATE	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20
TIME														
0130	1.2	1.1	1.1	1.2	1.3	1.2	1.3	1.1	1.0	1.0	1.0	0.9	1.2	0.7
0300		1.2						1.1			1.0		1.1	
0430								1.0		1.0	0.9		1.0	
0600										1.1				0.7
0730										1.1				0.8
0900		1.2				1.2				1.0				0.7
1030	1.2	1.1				1.3								0.6
1200	1.1													
1330				1.2										
1500				1.3										
1630														
1800							1.3					0.9	0.9	0.6
1930							1.1					1.1	0.8	0.5
2100					1.3							1.0	0.7	
2230			1.1		1.2							1.2		
2400	1.1	1.1	1.2	1.3	1.2	1.3	1.1	1.0	1.0	1.0	0.9	1.2	0.7	0.5

LAKE MICHIGAN, STATION 18, 30 m continued.

DATE TIME	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5	3-6
0130	0.5	0.5	0.4	0.4	0.3	0.2	0.0	0.1	0.2	0.2	0.1	0.0	0.1	0.2
0300														
0430		0.5												
0600		0.4												
0730					0.3	0.2					0.1			
0900					0.2	0.1					0.0			
1030														
1200						0.1				0.2				
1330						0.0				0.1				
1500														
1630														
1800								0.1				0.0	0.1	
1930								0.2				0.1	0.2	
2100							0.0							
2230				0.4			0.1							
2400	0.5	0.4	0.4	0.3	0.2	0.0	0.1	0.2	0.2	0.1	0.0	0.1	0.2	0.2
DATE TIME	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20
0130	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2
0300														
0430														
0600														0.2
0730														0.1
0900														0.2
1030														
1200														
1330								0.2				0.1		
1500								0.1				0.2		
1630								0.2						
1800								0.1	0.2					
1930								0.2	0.1					
2100														
2230														
2400	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2
DATE TIME	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3
0130	0.2	0.2	0.2	0.3	0.2	0.6	0.7	0.7	0.5	0.2	0.4	0.5	0.6	0.8
0300					0.2	0.7			0.5				0.6	
0430					0.3				0.4				0.7	
0600					0.3									
0730				0.3	0.4				0.4					
0900				0.2					0.3			0.5		
1030												0.6		
1200										0.2				
1330										0.3	0.4			
1500											0.5			
1630														
1800			0.2		0.4			0.7		0.3			0.7	
1930			0.3		0.5			0.6		0.4			0.8	
2100														
2230					0.5			0.6	0.3					0.8
2400	0.2	0.2	0.3	0.2	0.6	0.7	0.7	0.5	0.2	0.4	0.5	0.6	0.8	0.9

LAKE MICHIGAN, STATION 18, 30 m continued.

DATE	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17
TIME														
0130	0.9	1.0	1.0	1.0	1.2	1.1	1.2	1.2	1.4	1.4	1.3	1.3	1.3	1.5
0300					1.1			1.3						
0430								1.3						
0600								1.4			1.3			
0730			1.0								1.4			
0900			1.1											
1030						1.1							1.3	
1200			1.1			1.2							1.4	1.5
1330			1.0							1.4	1.4			1.6
1500			1.1	1.0						1.3	1.3			1.6
1630	0.9			1.1										1.7
1800	1.0		1.1											
1930			1.0											
2100														
2230				1.1									1.4	
2400	1.0	1.0	1.0	1.2	1.1	1.2	1.2	1.4	1.4	1.3	1.3	1.3	1.5	1.7
DATE	4-18	4-19	4-20	4-21	4-22	4-23	4-24	4-25	4-26	4-27	4-28	4-29	4-30	5-1
TIME														
0130	1.7	1.7												
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800		1.7												
1930														
2100														
2230														
2400	1.7													

End of
record

LAKE MICHIGAN - STATION 18. Depth 60 m.

Start 29 November 1962, 1650 CST; end 20 April 1963, 1000 CST.

Instrument serial no. 101, film record 20,100. No temperature correction.

DATE	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12
TIME														
0130		5.5	5.5	5.5	5.5	5.4	5.4	5.3	5.6	5.7	5.7	5.3	5.4	5.6
0300		5.6		5.5							5.7		5.4	
0430				5.4					5.6		5.8		5.5	
0600									5.7				5.5	
0730											5.8		5.6	
0900		5.6		5.4							5.7		5.6	
1030		5.5		5.5							5.6	5.3	5.7	5.6
1200											5.6	5.4		5.5
1330											5.5	5.4		
1500							5.4			5.7	5.4	5.3		
1630							5.3			5.6			5.7	
1800	5.7									5.6			5.6	
1930	5.4				5.5			5.3		5.7				5.5
2100					5.4			5.5						5.4
2230	5.4							5.6			5.4	5.3		
2400	5.5	5.5	5.5	5.5	5.4	5.4	5.3	5.6	5.7	5.7	5.3	5.4	5.6	5.4
DATE	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26
TIME														
0130	5.4	5.4	5.3	5.2	5.1	5.1	4.9	5.0	5.0	5.0	5.0	5.0	4.9	4.8
0300		5.4		5.2		5.0	4.9							
0430		5.3	5.3	5.1			5.0							
0600			5.2											
0730														
0900														
1030			5.2											
1200			5.1										4.9	4.8
1330			5.2										4.8	4.7
1500														
1630						5.0						5.0		
1800						4.9						4.9		
1930														
2100					5.1									
2230					5.0	4.9	5.0	5.0	5.0	5.0	5.0	4.9	4.8	4.7
2400	5.4	5.3	5.2	5.1	5.0	4.9	5.0	5.0	5.0	5.0	5.0	4.9	4.8	4.7
DATE	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
TIME														
0130	4.7	4.5	4.7	4.7	4.4	4.1	4.0	3.9	3.9	4.0	4.0	4.0	4.0	3.9
0300		4.5			4.4		3.9							4.0
0430		4.6			4.3	4.1	4.0							
0600		4.7				4.0								
0730														
0900										4.0				
1030					4.3					3.9				
1200				4.7	4.2			3.9		4.0	3.9			
1330				4.6				3.9	4.0				4.0	
1500										3.9			3.9	
1630						4.2				4.0				4.0
1800				4.6	4.1									3.9
1930	4.7			4.5										
2100	4.6													
2230	4.6			4.5			4.0							
2400	4.5	4.7	4.7	4.4	4.1	4.0	3.9	3.9	4.0	4.0	4.0	4.0	3.9	3.9

LAKE MICHIGAN, STATION 18, 60 m continued.

DATE	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23
TIME														
0130	3.9	3.9	3.9	3.9	3.9	3.9	3.6	3.3	3.3	3.4	3.3	3.2	3.0	2.9
0300											3.3	3.2	2.9	
0430						3.9					3.2	3.1		
0600						3.8								
0730									3.3			3.1		
0900									3.4			3.0		2.9
1030														2.8
1200							3.6							
1330							3.5							
1500							3.5							
1630							3.4							
1800						3.8				3.4				
1930						3.7	3.4			3.3				
2100						3.7	3.3							
2230						3.6	3.3							
2400	3.9	3.9	3.9	3.9	3.9	3.6	3.3	3.3	3.4	3.3	3.2	3.0	2.9	2.8
DATE	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6
TIME														
0130	2.8	2.9	2.6	2.5	2.5	2.3	1.9	1.8	2.0	2.0	1.9	1.7	1.8	1.6
0300														
0430		2.9												
0600		2.8						2.0					1.8	
0730			2.6			2.3		1.8	1.9				1.7	
0900			2.5			2.2		1.9				1.7	1.6	
1030					2.5									
1200					2.4	2.2						1.6		
1330		2.8			2.3	2.1				2.0				
1550		2.7					1.9			1.9				
1630						2.1	1.8	1.9				1.6		
1800		2.7				2.0		2.0	1.9		1.9	1.8		
1930		2.6							2.0		1.8			
2100						2.0								
2230	2.8					1.9								
2400	2.9	2.6	2.5	2.5	2.3	1.9	1.8	2.0	2.0	1.9	1.8	1.8	1.6	1.6
DATE	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20
TIME														
0130	1.6	1.7	1.1	1.1	1.0	1.1	1.2	1.0	1.0	1.1	1.0	1.1	1.1	1.1
0300	1.6	1.8		1.1	1.1			1.0			1.0			
0430	1.7			1.2							1.1			
0600				1.2										
0730				1.1					1.0					
0900									1.1					
1030		1.8												
1200		1.7												
1330		1.7												
1500		1.6					1.2							
1630							1.1							
1800		1.6												
1930		1.5								1.1				
2100		1.4		1.1			1.1			1.0				
2230		1.2		1.0		1.1	1.0				1.0			
2400	1.7	1.1	1.1	1.0	1.1	1.2	1.0	1.0	1.1	1.0	1.1	1.1	1.1	1.1

LAKE MICHIGAN, STATION 18, 60 m continued.

DATE	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5	3-6
TIME														
0130	1.1	1.0	1.1	1.1	1.5	1.4	1.4	1.2	1.0	0.2	0.1	0.3	0.5	0.7
0300														
0430							1.4						0.5	
0600					1.5		1.3	1.0			0.1		0.4	
0730					1.4		*	0.8			0.2		0.6	
0900				1.1	1.3			0.6						
1030				1.2				0.4						
1200				1.2				0.3					0.6	
1330				1.1				0.2	0.2				0.7	
1500		1.0		1.1	1.3				0.1	0.2			0.8	
1630		1.1		1.3	1.4			1.2			0.3			
1800	1.1			1.4				1.0				0.4		
1930	1.0			1.4				1.1				0.4		
2100				1.5			1.3					0.5	0.8	0.7
2230							1.2	1.1					0.7	0.8
2400	1.0	1.1	1.1	1.5	1.4	1.4	1.2	1.0	0.2	0.1	0.3	0.5	0.7	0.8
DATE	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20
TIME														
0130	0.8	0.9	1.0	0.9	0.9	0.9	0.8	0.8	0.5	0.5	0.4	0.3	0.8	1.0
0300							0.9							
0430													0.8	
0600			1.0	0.9									0.7	
0730			0.9	0.8										
0900				0.8										
1030				0.7	0.9	0.9	0.9					0.3	0.7	
1200	0.8		0.9	0.7	1.0	1.0	0.8	0.8				0.4	0.8	
1330	0.9		0.8	0.8				0.7				0.5		
1500			0.6	0.8				0.6		0.5		0.6	0.8	
1630			0.5	0.9	1.0	1.0				0.4		0.7	0.9	
1800			0.5		0.9	0.9		0.6			0.4	0.8		
1930		0.9	0.7					0.5			0.3			1.0
2100		1.0	0.8											1.1
2230			0.9			0.9							0.9	
2400	0.9	1.0	0.9	0.9	0.9	0.8	0.8	0.5	0.5	0.4	0.3	0.8	1.0	1.1
DATE	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3
TIME														
0130	1.1	1.1	1.1	1.1	1.1	1.0	0.9	1.0	1.0	1.1	0.8	1.0	0.6	0.6
0300											0.8	1.0	0.5	0.7
0430						1.0					0.9	0.9		
0600						0.9					1.0	0.8		
0730						1.0						0.6		
0900										1.1	1.2	1.0	0.5	0.7
1030										1.1	0.9	0.4		0.8
1200					1.1					1.0	1.0	0.3		
1330					1.0					0.9	1.0			0.8
1500	1.1									0.9	1.1	0.3	0.5	0.9
1630	1.0					1.0				0.8		1.0	0.6	
1800						0.9			1.0		1.1	1.1		0.9
1930									1.1		1.2	1.0		1.0
2100	1.0						0.9				1.2	0.9		
2230	1.1						1.0				1.1	0.7		
2400	1.1	1.1	1.1	1.1	1.0	0.9	1.0	1.0	1.1	0.8	1.0	0.6	0.6	1.0

LAKE MICHIGAN, STATION 18, 60 m continued.

DATE	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17
TIME														
0130	1.0	0.9	0.8	0.7	0.8	0.3	0.3	0.3	0.3	0.3	0.4	0.6	0.9	0.9
0300		0.9			0.8									
0430	1.0	0.8	0.8		0.7							0.6		0.9
0600	1.1		0.7	0.7							0.4	0.7		0.8
0730	1.1			0.8	0.7						0.5			0.8
0900	1.0			0.8	0.5							0.7		0.7
1030		0.8	0.7	0.9	0.3							0.8		
1200		0.9	0.8						0.3					
1330		0.8							0.2		0.5			
1500											0.6			
1630									0.2					
1800				0.9					0.3					0.7
1930			0.8	0.8						0.3				0.6
2100			0.7							0.4		0.8		
2230	1.0											0.9		
2400	0.9	0.8	0.7	0.8	0.3	0.3	0.3	0.3	0.3	0.4	0.6	0.9	0.9	0.6
DATE	4-18	4-19	4-20	4-21	4-22	4-23	4-24	4-25	4-26	4-27	4-28	4-29	4-30	5-1
TIME														
0130	0.6	0.7												
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500		0.7												
1630														
1800		End of												
1930	0.6	record												
2100	0.7													
2230														
2400	0.7													

LAKE MICHIGAN - STATION 20. Depth 10 m.

Start 28 November 1962, 1630 CST; end 22 April 1963, 1445 CST.

Instrument serial no. 111, film record 20,106. No temperature correction.

DATE	11-28	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11
TIME														
0130		9.4	8.0	8.6	8.0	9.0	9.3	9.4	9.2	8.2	8.0	7.9	7.2	7.7
0300		9.3	7.9	8.5	8.0				9.1	8.1	8.0	7.9	7.3	7.6
0430			7.8		8.2				9.0	8.0	7.9	7.8	7.3	7.5
0600			7.9		8.2				9.0			7.8		7.4
0730		9.3			8.3			9.4	8.9		7.9	7.7	7.3	7.4
0900		9.2			8.5			9.3	8.8		7.8	7.7	7.4	7.3
1030		9.1	7.9		8.6				8.7			7.6	7.4	7.1
1200		9.0	8.0		8.6		9.3		8.6			7.5	7.5	6.9
1330		8.7	7.9		8.7	9.0	9.4		8.5			7.4	7.6	7.0
1500		8.4	7.8		8.8	9.1			8.4			7.3	7.7	7.3
1630		8.3	8.1		8.9	9.2			8.3			7.2	7.7	7.6
1800	9.5	8.3	8.3			9.3							7.8	7.7
1930		8.0	8.4	8.5										
2100	9.5	8.1	8.5	8.3	8.9				8.3			7.2		7.7
2230	9.4	8.2		8.0	9.0			9.3	8.2		7.8	7.1	7.8	7.8
2400	9.4	8.2	8.5	8.0	9.0	9.3	9.4	9.2	8.2	8.0	7.9	7.1	7.7	7.9
DATE	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25
TIME														
0130	7.9	6.6	7.0	6.6	6.7	6.6	7.0	7.0	6.8	6.7	6.2	6.0	6.0	5.8
0300		6.8	7.0		6.7	6.5		6.9	6.8	6.6			6.0	5.9
0430		7.3	6.8	6.6	6.8				6.7	6.6			6.1	5.8
0600	7.9		6.7	6.5	6.9	6.5		6.9		6.5			6.2	5.9
0730	7.8	7.3	6.7			6.6		6.8		6.5				
0900		6.7	6.8	6.5	6.9	6.7				6.4	6.2		6.2	
1030		6.8		6.6	7.1	6.8				6.4	6.1		6.1	
1200	7.8	7.3	6.8	6.7	7.1					6.3	6.0		6.0	
1330	7.7	7.2	6.7	6.8	7.2					6.2			6.0	
1500	7.6	7.0	6.6	6.9		6.8				6.1			5.9	
1630	7.5	6.5		7.0	7.2	6.9							5.8	
1800	7.5	6.1		7.1	7.1					6.1			5.7	
1930	7.4	6.6	6.6		7.0					6.2				
2100	7.3	7.0	6.5	7.1	6.9	6.9								
2230	7.2	7.1	6.5	7.0	6.8	7.0								
2400	6.8	7.0	6.6	6.9	6.7	7.0	7.0	6.8	6.7	6.2	6.0	6.0	5.7	5.9
DATE	12-26	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
TIME														
0130	5.9	5.9	5.7	5.4	5.4	5.4	5.2	5.2	5.3	5.3	5.2	5.2	5.2	5.2
0300		5.9												
0430		5.8	5.7			5.4								
0600			5.6			5.3								
0730														
0900														
1030		5.8												
1200	5.9	5.7	5.6											
1330	6.0		5.5						5.2					
1500									5.3					
1630														
1800			5.5											
1930			5.4											
2100						5.3								
2230						5.2								
2400	6.0	5.7	5.4	5.4	5.4	5.2	5.2	5.3	5.3	5.3	5.2	5.2	5.2	5.2

LAKE MICHIGAN, STATION 20, 10 m continued.

DATE	1-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22
TIME														
0130	5.2	5.2	5.0	5.0	4.8	4.6	4.0	4.5	4.5	4.4	4.1	3.9	3.9	3.7
0300					4.8		4.3				4.0		3.8	3.8
0430					4.9		4.6						3.7	3.7
0600						4.6	4.6							3.6
0730						4.4								3.2
0900						4.3								2.8
1030						4.2								2.7
1200		5.2				4.1								2.7
1330		5.1		5.0	4.9	3.9							3.7	2.8
1500				4.9	4.8	3.3				4.4		3.9	3.6	3.1
1630						3.2				4.3		3.8		3.3
1800				4.9							4.0			3.2
1930				4.8	4.8	3.2					3.8			2.9
2100		5.1			4.7	3.3			4.5		3.7			2.8
2230		5.0			4.7	3.4	4.6		4.4				3.6	2.7
2400	5.2	5.0	5.0	4.8	4.6	3.7	4.5	4.5	4.4	4.3	3.7	3.8	3.7	2.7
DATE	1-23	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5
TIME														
0130	2.7	3.4	3.3	1.1	1.1	1.5	2.4	2.0	2.0	2.0	2.4	1.9	2.2	2.4
0300		3.5			1.2	1.4	2.4	2.0			2.4	1.7	2.3	2.0
0430				1.1	1.5	1.4	2.5	2.1			2.3	1.6	2.3	1.9
0600				1.0	2.3	1.3	2.4	2.3					2.4	1.8
0730			3.3		2.4	1.4		2.2					2.5	1.7
0900			3.2		2.4	1.4	2.4	2.0			2.3			
1030			3.1		2.1	1.5	2.3				2.4			1.7
1200			2.6		2.0	1.5	2.1		2.0					1.6
1330	2.7		2.4			1.4	1.9		2.1	2.0				
1500	2.8	3.5	2.0				1.7		2.2	2.1				1.6
1630	2.9	3.4	1.9		2.0	1.4				2.2				1.5
1800	3.0		1.8		1.9	1.5			2.2	2.3				
1930	3.1		1.7		1.7	1.6	1.7		2.1	2.5	2.4			1.5
2100	3.2	3.4	1.5		1.6	1.8	1.8		2.0		2.3	1.6		1.4
2230	3.3	3.3	1.3		1.5	2.1	1.9			2.5	2.1	1.7	2.5	1.4
2400	3.3	3.3	1.2	1.0	1.5	2.3	2.0	2.0	2.0	2.4	2.0	2.0	2.4	1.3
DATE	2-6	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19
TIME														
0130	1.4	1.3	1.3	1.5	1.5	1.8	1.3	1.3	1.3	1.2	1.2	1.4	1.7	1.7
0300						1.9						1.4	1.7	
0430						1.7						1.5	1.6	
0600			1.3			1.9								1.7
0730			1.4			1.9								1.8
0900			1.4			1.8								1.8
1030			1.5			1.8								1.7
1200						1.9	1.3				1.2			1.6
1330					1.5	1.7	1.2				1.1			1.6
1500					1.6	1.6								1.5
1630	1.4					1.5								
1800	1.5					1.5					1.1	1.5		
1930						1.4					1.2	1.6	1.6	
2100						1.4					1.2	1.6	1.5	
2230						1.3					1.3	1.7	1.6	1.5
2400	1.5	1.3	1.5	1.5	1.6	1.3	1.2	1.3	1.3	1.2	1.3	1.7	1.7	1.6

LAKE MICHIGAN, STATION 20, 10 m continued.

DATE	2-20	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5
TIME														
0130	1.6	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.2	1.1
0300		1.2												
0430	1.6	1.1												
0600	1.5	1.1								1.0				
0730		1.0								1.1				
0900														
1030				1.0										
1200				1.1								1.1		
1330				1.1								1.2		
1500				1.0										
1630														
1800	1.5												1.2	
1930	1.4												1.1	
2100	1.3													
2230														
2400	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.2	1.1	1.1
DATE	3-6	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19
TIME														
0130	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	
0300														1.1
0430														
0600									1.0					Film torn.
0730									1.1					Data ends.
0900														
1030	1.1													
1200	1.0													
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1		

LAKE MICHIGAN - STATION 20. Depth 15 m.
 Start 28 November 1962, 1630 CST; end 22 April 1963, 1445 CST.
 Instrument serial no. 110, film record 20,107. No temperature correction.

DATE TIME	11-28	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11
0130		8.7	7.1	7.1	7.1	8.0	8.4	8.5	8.3	7.4	7.1	7.0	6.1	6.9
0300		8.6	7.0	7.2					8.2	7.3				6.8
0430		8.6	7.0						8.2		7.1			6.6
0600		8.5	6.9						8.1	7.3	7.0			6.4
0730		8.5	6.8	7.2	7.1			8.5	8.1	7.2		7.0		6.3
0900		8.4		7.3	7.2			8.4	8.0	7.1		6.9	6.1	6.2
1030		8.3		7.4	7.3	8.0						6.8	6.2	6.1
1200		8.1		7.6	7.8	8.1			8.0			6.6	6.3	6.0
1330		7.9		7.7	7.9	8.2	8.4		7.9			6.4	6.4	
1500		7.4			7.9	8.3	8.5		7.8			6.2	6.6	6.0
1630		7.3	6.8	7.7	8.0				7.7			6.1	6.8	6.4
1800	8.7	7.3	6.9	7.5		8.3			7.7				6.9	6.8
1930		7.1	7.0	7.4	8.0	8.4			7.6					
2100			7.2	7.2	8.1				7.6					
2230			7.0	7.1	8.0				7.5					6.8
2400	8.7	7.1	7.1	7.1	8.0	8.4	8.5	8.4	7.5	7.1	7.0	6.1	6.9	6.9

DATE TIME	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25
0130	6.9	5.7	6.0	5.9	6.0	6.0	6.0	6.0	6.0	5.9	5.5	5.4	5.4	5.1
0300	7.0	5.8				5.9								
0430		6.1	6.0							5.9				5.1
0600	7.0	6.1	5.9	5.9						5.8		5.4		5.2
0730	6.9	6.2		5.8	6.0	5.9				5.7		5.3	5.4	
0900		5.8			6.1	6.0				5.6			5.5	
1030		5.8		5.8							5.5		5.5	
1200		6.1	5.9	5.9			6.0			5.6	5.4		5.4	
1330	6.9	6.0	5.8	6.0			6.1			5.5			5.3	
1500	6.8	6.0	5.9									5.3	5.2	
1630	6.7	5.5			6.1							5.4	5.1	
1800	6.6	5.5	5.9		6.0		6.1					5.3		
1930	6.5	5.7	5.8				6.0							
2100	6.3	6.0	5.8						6.0					5.2
2230	6.2		5.9						5.9			5.3		5.3
2400	6.1	6.0	5.9	6.0	6.0	6.0	6.0	6.0	5.9	5.5	5.4	5.4	5.1	5.3

DATE TIME	12-26	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
0130	5.3	5.2	5.1	5.0	5.0	5.0	4.7	4.5	4.5	4.6	4.6	4.6	4.8	4.7
0300		5.1					4.7							
0430							4.6							
0600			5.1			5.0						4.6		
0730	5.3		5.0			4.9						4.7		4.7
0900	5.2			4.0			4.6						4.8	4.6
1030				4.9			4.5						4.7	
1200		5.1												
1330		5.2												
1500									4.5					
1630				4.9					4.6					
1800				5.0									4.7	4.6
1930												4.8		4.5
2100		5.2				4.9								
2230		5.1				4.8								
2400	5.2	5.1	5.0	5.0	5.0	4.7	4.5	4.5	4.6	4.6	4.6	4.8	4.7	4.5

LAKE MICHIGAN, STATION 20, 15 m continued.

DATE	1-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22
TIME														
0130	4.5	4.4	4.3	4.3	4.3	4.2	3.0	3.9	3.7	3.7	3.6	3.1	3.0	3.0
0300							3.1				3.5			
0430						4.2	3.7				3.2			
0600						4.1	3.8							3.0
0730							3.9	3.9				3.1		2.9
0900						4.1		3.8				3.0		2.6
1030						4.0								2.3
1200						3.8								2.2
1330					4.3									2.3
1500					4.2	3.8		3.8						2.4
1630						2.9		3.7					3.0	2.6
1800		4.4				2.8					3.2		2.9	2.8
1930		4.3		4.3				3.7			3.1		2.9	2.9
2100	4.5			4.2				3.6		3.7			3.0	2.7
2230	4.4					2.8				3.6				2.6
2400	4.4	4.3	4.3	4.2	4.2	2.9	3.9	3.6	3.7	3.6	3.1	3.0	3.0	2.6
DATE	1-23	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5
TIME														
0130	2.5	2.6	2.6	0.9	0.6	1.0	1.6	1.2	1.2	1.3	1.8	1.5	1.1	1.9
0300	2.4	2.7			0.8		1.8	1.2	1.3	1.3		1.3	1.3	1.8
0430				0.9	1.0		1.9	1.1	1.2	1.6		1.2	1.5	1.7
0600				0.8	1.2	1.0		1.2	1.5	1.5		1.1	1.7	1.6
0730				0.7	1.8	0.9		1.7	1.3			1.0	1.8	
0900			2.6	0.6	2.0			1.6	1.1				1.9	
1030			2.5		2.2	0.9		1.3	1.2	1.5			2.0	1.6
1200			2.4		2.1	1.0	1.9	1.2	1.9	1.8				1.4
1330			2.0		1.9		1.6	1.1	2.0	1.9				1.1
1500	2.4		1.9		1.9		1.3			1.6	1.8			
1630	2.5	2.7	1.7		1.8		1.1			1.6	1.9			1.1
1800		2.6	1.4		1.7					1.7				1.0
1930	2.5		1.3		1.6					1.8				
2100	2.6		1.2		1.3	1.0	1.1		2.0	1.9		1.0		
2230			1.0		1.1	1.2	1.2	1.1	1.4			1.1		1.0
2400	2.6	2.6	0.9	0.6	1.0	1.4	1.2	1.2	1.3	1.9	1.9	1.1	2.0	0.9
DATE	2-6	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19
TIME														
0130	0.9	0.9	0.9	0.9	1.0	1.0	1.0	0.7	0.9	0.9	0.9	0.9	1.0	0.9
0300														1.0
0430														
0600	0.9							0.7						
0730	0.8			0.9		1.0		0.8					1.0	
0900				1.0	1.0	1.1		0.9		0.9			0.9	
1030					0.9			1.0	1.0	0.8				
1200								0.9	0.9					
1330									0.8					
1500					0.9		0.9	1.0				0.9		
1630			0.9		1.0	1.1	0.8	0.9		0.8		1.0		
1800			1.0			1.0				0.9				1.0
1930	0.8													0.9
2100	0.9													
2230							0.8							
2400	0.9	0.9	1.0	1.0	1.0	1.0	0.7	0.9	0.9	0.9	0.9	1.0	0.9	0.9

LAKE MICHIGAN, STATION 20, 15 m continued.

DATE	2-20	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5
TIME														
0130	0.9	0.7	0.3	0.2	0.3	0.3	0.5	0.6	0.8	0.8	0.7	0.5	0.4	0.3
0300		0.6												
0430		0.5												
0600		0.4			0.3		0.5	0.6			0.7			
0730		0.3	0.3		0.2		0.6	0.7			0.6			
0900			0.2			0.3						0.5	0.4	
1030						0.4						0.4	0.3	
1200														
1330				0.2						0.8				
1500				0.3						0.7				
1630				0.3										0.3
1800	0.9			0.2	0.2			0.7						0.4
1930	0.8				0.3	0.4		0.8						
2100	0.8			0.2		0.5					0.6			
2230	0.7			0.3							0.5			
2400	0.7	0.3	0.2	0.3	0.3	0.5	0.6	0.8	0.8	0.7	0.5	0.4	0.3	0.4
DATE	3-6	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19
TIME														
0130	0.4	0.5	0.5	0.6	0.4	0.3	0.3	0.4	0.5	0.5	0.4	0.3	0.4	0.5
0300														
0430											0.4			
0600			0.5	0.6							0.3			
0730			0.6	0.5			0.3	0.4						0.5
0900							0.4	0.5					0.4	0.6
1030					0.4								0.5	
1200					0.3					0.5				
1330	0.4									0.4				
1500	0.5													
1630				0.5										
1800				0.4								0.3		
1930												0.4		
2100														
2230														
2400	0.5	0.5	0.6	0.4	0.3	0.3	0.4	0.5	0.5	0.4	0.3	0.4	0.5	0.6
DATE	3-20	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2
TIME														
0130	0.6	0.5	0.4	0.4	0.5	0.8	0.5	0.2	0.3	0.4	1.0	1.0	0.9	0.9
0300														
0430		0.5												
0600	0.6	0.4				0.8	0.5			0.4				
0730	0.5		0.4		0.5	0.7	0.4			0.5				
0900			0.3		0.6					0.6				0.9
1030										0.7				1.0
1200														
1330				0.4			0.4	0.2	0.3	0.8				
1500				0.5	0.6	0.7	0.3	0.3		1.0				
1630					0.7	0.6								
1800			0.3									1.0		
1930			0.4		0.7							0.9		
2100					0.8	0.6								
2230						0.5								
2400	0.5	0.4	0.4	0.5	0.8	0.5	0.3	0.3	0.4	1.0	1.0	0.9	0.9	1.0

LAKE MICHIGAN, STATION 20, 15 m continued.

DATE	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16
TIME														
0130	1.0	1.1	1.2											
0300			1.2											
0430			1.1											
0600														
0730			1.1											
0900			1.0											
1030														
1200														
1330														
1500			1.0											
1630	1.0													
1800	1.1													
1930		1.1												
2100		1.2												
2230														
2400	1.1	1.2												

LAKE MICHIGAN - STATION 20. Depth 22 m.

Start 28 November 1962, 1630 CST; end 22 April 1963, 1445 CST.

Instrument serial no. 116, film record 20,108. No temperature correction.

DATE	11-28	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11
TIME														
0130		8.8	7.2	6.9	6.7	7.9	8.7	8.8	8.6	7.6	7.3	7.2	6.3	6.9
0300			7.2	6.9	6.8	8.0	8.8		8.5	7.5	7.3		6.4	6.8
0430			7.0	7.1	7.0	8.1			8.4	7.5	7.2	7.2	6.5	6.7
0600		8.8	6.9	7.2	7.2				8.3	7.4	7.2	7.1		6.7
0730		8.7	6.8	7.1	7.2			8.8		7.4	7.1	7.0	6.5	6.6
0900		8.6			7.0	8.1		8.7	8.3	7.3	7.1	6.9	6.6	6.4
1030		8.3			7.1	8.2			8.2		7.0	6.8	6.6	6.2
1200		7.9			7.1	8.3			8.0			6.7	6.7	6.0
1330		7.7			7.3	8.5	8.8		7.9			6.6	6.8	6.0
1500		7.4		7.1	7.5	8.6	8.7		7.8			6.4	6.9	6.5
1630		7.4			7.0	7.6	8.7		7.7		7.0	6.3	7.0	6.9
1800	9.0	7.3	6.8	7.0	7.7		8.8				7.1			7.0
1930	8.9	7.2	6.9	6.9	7.9		8.7				7.1			7.0
2100			6.7	7.0	8.0		8.8		7.7		7.2			7.1
2230	8.9		6.7	7.0	7.9			8.7	7.6					7.1
2400	8.8	7.2	6.9	6.8	7.8	8.6	8.8	8.6	7.6	7.3	7.2	6.3	7.0	7.2

LAKE MICHIGAN, STATION 20, 22 m continued.

DATE	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	21-20	12-21	12-22	12-23	12-24	12-25
TIME														
0130	7.3	5.7	6.3	6.0	6.1	6.0	6.3	6.3	6.2	6.0	5.7	5.5	5.5	5.3
0300		6.0	6.2			5.9		6.2		5.9	5.6		5.5	
0430		6.5	6.0		6.1					5.9	5.5		5.6	
0600	7.3	6.6		6.0	6.3	5.9			6.2	5.8		5.5		
0730	7.2	6.5		5.9	6.3	6.0			6.1	5.8		5.4		
0900	7.1	5.8		5.9	6.4	6.0				5.7	5.5		5.6	
1030		6.1		6.0	6.5	6.1				5.6	5.4		5.4	
1200	7.1	6.5	6.0	6.0		6.1				5.6			5.4	
1330	7.0	6.3	5.9	6.1		6.2				5.5			5.3	
1500	7.0	6.1	5.8	6.2		6.2					5.4	5.4		
1630	6.9	5.6	5.8	6.3	6.5	6.3				5.5	5.5	5.5	5.3	
1800	6.8	5.6	5.9	6.3	6.4				6.1	5.6		5.4	5.2	
1930	6.7	5.8	5.9	6.2	6.3				6.0	5.6				
2100	6.6	6.3	5.7	6.2	6.2					5.7			5.2	
2230	6.4		5.7	6.1	6.1							5.4	5.3	
2400	6.0	6.3	5.9	6.0	6.1	6.3	6.3	6.2	6.0	5.7	5.5	5.5	5.3	5.3

DATE	12-26	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
TIME														
0130	5.3	5.5	5.2	4.9	5.0	5.0	4.5	4.5	4.6	4.6	4.6	4.6	4.6	4.5
0300		5.4				4.9	4.5							
0430		5.3	5.2			4.8	4.4							
0600			5.1		5.0	4.7	4.4							
0730		5.3	5.1		4.9		4.5							
0900		5.2	5.0					4.5						
1030								4.6					4.6	
1200	5.3			4.9									4.5	
1330	5.4	5.2		5.0										
1500	5.4	5.3			4.9									
1630	5.5				5.0									
1800														
1930						4.7								
2100			5.0			4.6								
2230		5.3	4.9			4.5								
2400	5.5	5.2	4.9	5.0	5.0	4.5	4.5	4.6	4.6	4.6	4.6	4.6	4.5	4.5

DATE	1-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22
TIME														
0130	4.5	4.5	4.4	4.3	4.2	4.0	3.0	3.9	3.6	3.6	3.6	3.1	3.0	2.9
0300							3.5	3.9			3.5		2.9	3.0
0430							3.7	3.8			3.4			3.0
0600		4.5		4.3		4.0	3.8	3.8				3.1	2.9	2.8
0730		4.4		4.2		3.9	3.9	3.7				3.0	2.8	2.6
0900						3.6								2.3
1030						3.5								2.1
1200													2.8	2.0
1330						3.5							2.7	2.1
1500						3.0		3.7						2.4
1630						2.6		3.6			3.4			2.6
1800						2.5					3.3			2.7
1930					4.2	2.6					3.2			2.5
2100			4.4		4.1	2.6					3.1		2.7	2.2
2230			4.3		4.0	2.7							2.8	2.1
2400	4.5	4.4	4.3	4.2	4.0	2.8	3.9	3.6	3.6	3.6	3.1	3.0	2.9	2.1

LAKE MICHIGAN, STATION 20, 22, m continued.

DATE	1-23	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5
TIME														
0130	2.1	2.6	2.5	0.2	0.6	0.8	1.7	1.2	1.7	1.7	1.5	1.2	1.4	1.6
0300				0.3	0.8	0.8		1.2	1.7	1.8		1.0	1.5	1.5
0430				0.1	1.5	1.0		1.3	1.9	1.8		1.0		1.5
0600				0.0	1.7	0.8		1.7	2.0	1.9		1.3	1.5	1.4
0730					2.0	0.8		1.7	1.7	1.5		1.2	1.6	
0900					2.3	1.2		1.4	2.0	1.7		1.0		
1030			2.5		2.6	1.6	1.7	1.3	2.0	2.0		0.9		1.4
1200			2.4	0.0	2.5	2.1	1.6	1.2	2.1	2.0				1.2
1330	2.1		1.7	0.2	2.2		1.3	1.3	2.1	1.7		0.9		1.1
1500	2.2		1.5	0.1	1.8	2.1	1.1	1.4	2.2	2.0		1.3		1.0
1630	2.3		1.4	0.0	1.6	1.9	1.0	1.4		2.0		1.3		0.7
1800	2.3		1.1		1.6	1.9	1.1	1.2		1.7		1.4		0.6
1930	2.4		1.1		1.3	2.2	1.2	1.3	2.2	1.5		1.5		0.5
2100	2.4	2.6	0.7		1.0	1.8	1.3	1.4	1.9	1.5	1.5	1.5		0.4
2230	2.5	2.5	0.5	0.0	0.8	1.6	1.2	1.5	1.5	1.4	1.4	1.4		0.3
2400	2.6	2.5	0.2	0.2	0.8	1.6	1.2	1.6	1.6	1.3	1.3	1.2	1.6	0.3
DATE	2-6	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19
TIME														
0130	0.3	0.4	0.8	0.6	0.7	1.1	1.3	0.4	0.7	0.5	0.5	0.5	0.6	0.7
0300		0.3	0.9			1.3	1.3		0.6			0.5		0.7
0430			0.8				1.1	0.4	0.5			0.6		0.8
0600			0.7				1.0	0.6						
0730						1.3	0.9	0.8						0.8
0900						1.4	0.9	1.1						0.9
1030							0.8	1.2						
1200		0.3					0.7	1.1						
1330		0.5			0.7		0.6							
1500	0.3	1.0	0.7		0.8		0.7							0.9
1630	0.4	0.6	0.6		0.9	1.4	0.5	1.1		0.5				0.8
1800		0.5	0.6			1.3	0.4	0.8		0.4		0.6		0.7
1930			0.5					0.7				0.5		0.6
2100							0.4	0.6						0.6
2230		0.5			0.9		0.5	0.7		0.5	0.4		0.5	0.7
2400	0.4	0.7	0.5	0.6	1.0	1.3	0.4	0.6	0.5	0.4	0.5	0.6	0.6	0.7
DATE	2-20	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5
TIME														
0130	0.8	0.3	0.1	0.1	0.2	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
0300	0.7	0.3			0.1									
0430	0.6	0.2					0.2							
0600						0.1	0.3							
0730						0.2								
0900		0.2												
1030		0.1												
1200				0.1										
1330				0.2										
1500														
1630					0.2									
1800	0.6				0.1									
1930	0.5				0.2									
2100	0.4													
2230	0.4													
2400	0.3	0.1	0.1	0.2	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

LAKE MICHIGAN, STATION 20, 22 m continued.

DATE	3-6	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19
TIME														
0130	0.3	0.3	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
0300					0.1									
0430					0.2									
0600		0.3												
0730		0.2												
0900														
1030		0.1												
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	0.3	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
DATE	3-20	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2
TIME														
0130	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.4	0.8	0.8	0.9	0.9
0300										0.4				
0430										0.5				0.9
0600														0.8
0730												0.8		
0900												0.9		
1030														
1200										0.5			0.9	
1330				0.3						0.6			0.8	0.8
1500				0.4		0.4				0.7				0.9
1630						0.3				0.7		0.9		
1800										0.8		0.8		
1930												0.7		
2100									0.3	0.8				
2230									0.4	0.7				
2400	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.4	0.7	0.8	0.7	0.8	0.9
DATE	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16
TIME														
0130	0.9	0.9	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.5
0300			1.0											1.5
0430			0.9											1.4
0600														
0730						1.0								
0900						1.1								
1030						1.2								
1200														
1330														
1500													1.3	
1630											1.3		1.4	
1800											1.2		1.4	
1930									1.2				1.5	
2100									1.3					
2230														
2400	0.9	0.9	0.9	1.0	1.0	1.2	1.2	1.2	1.3	1.3	1.2	1.3	1.5	1.4

LAKE MICHIGAN, STATION 20, 22 m continued.

DATE TIME	4-17	4-18	4-19	4-20	4-21	4-22	4-23	4-24	4-25	4-26	4-27	4-28	4-29	4-30
0130	1.4	1.5	1.5	1.6	1.6	1.6								
0300														
0430														
0600														
0730														
0900			1.5											
1030			1.6											
1200														
1330						1.6								
1500	1.4													
1630	1.5													
1800														
1930														
2100														
2230														
2400	1.5	1.5	1.6	1.6	1.6									

Removed from
water at 1445

LAKE MICHIGAN - STATION 20. Depth 30 m.

Start 28 November 1962, 1630 CST; end 22 April 1963, 1445 CST.

Instrument serial no. 107, film record 20,109. No temperature correction.

DATE TIME	11-28	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11
0130		8.3	6.6	6.1	5.7	7.0	8.4	8.5	8.2	7.1	7.0	7.0	6.0	6.3
0300			6.4	6.0		6.9	8.4		8.2		7.0	7.0	6.0	6.3
0430		8.3	6.3	5.9	5.7	6.9	8.3	8.5	8.1		6.9	6.9	6.1	6.2
0600		8.2		6.0	6.0	7.1	8.4	8.4	8.1		6.9	6.7		6.1
0730		8.1		6.1		7.2		8.3	8.0		6.8	6.5		
0900		8.0				7.5		8.2	8.0	7.1	6.8	6.4	6.1	6.1
1030		7.5				7.9		8.4	7.9	7.0	6.7	6.3	6.3	6.0
1200		7.3		6.1	6.0				7.6			6.2	6.4	5.9
1330		7.1		6.0	6.1				7.5			6.1	6.5	5.8
1500		6.9	6.3	5.7	6.2	7.9	8.4		7.3			6.1		5.9
1630		6.9	6.1	5.5	6.3	8.1	8.3		7.2		6.7	6.0		6.0
1800	8.4	6.8		5.9	6.4	8.2					6.8			6.4
1930		6.7	6.1	5.8	6.7			8.4	7.2		6.8		6.5	
2100		6.6	6.0		6.4		8.3	8.3	7.1		6.9		6.4	6.4
2230			6.1		6.4		8.4				6.9		6.3	6.5
2400	8.4	6.6	6.1	5.8	6.6	8.2	8.5	8.3	7.1	7.0	7.0	6.0	6.3	6.7

LAKE MICHIGAN, STATION 20, 30 m continued.

DATE	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25
TIME														
0130	6.9	5.4	6.0	5.7	5.9	5.7	5.9	5.9	5.9	5.7	5.4	5.2	5.2	5.1
0300		5.8	6.0				6.0			5.7	5.4			
0430	6.9	6.1	5.9		5.9					5.6	5.3			
0600	6.8				6.0	5.7				5.5			5.2	
0730	6.8	6.1			6.0	5.8				5.5			5.3	
0900	6.7	5.5		5.7	6.1	5.9				5.4	5.3		5.2	
1030	6.6	5.6	5.9	5.9					5.9	5.4	5.2		5.1	
1200	6.6	6.0	5.8						5.8	5.3				
1330	6.5	5.9	5.6							5.2			5.1	
1500	6.4	5.7		5.9						5.3			5.0	
1630	6.3	5.1		6.0										
1800	6.2	5.3		5.9	6.1									
1930	6.1	5.5	5.6		6.0				5.8	5.3				
2100	6.1	6.0	5.5		6.0				5.7	5.4				
2230	5.9		5.5		5.9		6.0						5.0	
2400	5.6	6.0	5.6	5.9	5.8	5.9	5.9	5.9	5.7	5.4	5.2	5.2	5.1	5.1
DATE	12-26	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
TIME														
0130	5.2	5.2	5.1	5.0	5.0	4.9	4.4	4.3	4.3	4.3	4.3	4.3	4.4	4.4
0300														
0430														
0600						4.9	4.4					4.3		
0730		5.2				4.8	4.3					4.4		
0900		5.1												
1030			5.1			4.8								
1200			5.0			4.7								
1330														
1500						4.7								
1630						4.6								
1800														
1930					5.0									
2100					4.9	4.6								
2230						4.5								
2400	5.2	5.1	5.0	5.0	4.9	4.4	4.3	4.3	4.3	4.3	4.3	4.4	4.4	4.4
DATE	1-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22
TIME														
0130	4.4	4.3	4.2	4.1	4.1	3.9	3.1	3.7	3.6	3.7	3.7	3.1	3.0	3.0
0300							3.2				3.7			
0430							3.4				3.6			
0600						3.9	3.4		3.6		3.6			3.0
0730						3.8	3.7		3.7		3.5			2.7
0900						3.5							3.0	2.4
1030		4.3				3.3					3.5		2.9	2.1
1200		4.2				3.2					3.4		2.9	
1330						3.1							2.8	2.1
1500					4.1	3.0		3.7			3.4			2.5
1630			4.2		4.0	2.5		3.6			3.3			2.7
1800	4.4		4.1			2.5					3.3		2.8	2.8
1930	4.3					2.6					3.2		2.9	2.5
2100						2.5					3.2	3.1		2.2
2230					4.0	2.7					3.1	3.0	2.9	2.1
2400	4.3	4.2	4.1	4.1	3.9	2.9	3.7	3.6	3.7	3.7	3.1	3.0	3.0	2.1

LAKE MICHIGAN, STATION 20, 30 m continued.

DATE	1-23	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5
TIME														
0130	2.1	2.5	2.4	0.1	0.2	1.5	1.6	1.2	1.6	2.1	1.5	1.2	1.4	1.3
0300				0.2	0.6	1.9	1.5	1.1	1.7		1.3		1.3	
0430				0.1	1.3	2.1		1.4	2.0			1.2		
0600			2.4	0.0	1.7			1.5				1.3	1.3	
0730			2.3		2.1	2.1		1.6			1.3	1.4	1.4	
0900					2.2	2.3	1.5	1.3			1.4		1.4	1.3
1030			2.3		2.3	2.2	1.4	1.1					1.5	1.2
1200			2.2	0.0	2.3	2.2	1.4	1.1						1.1
1330	2.1		1.8	0.1	2.2	2.1	1.3	1.3						1.1
1500	2.3		1.4		2.1		1.2	1.2						1.0
1630			1.2	0.1	2.0		1.3		2.0				1.5	0.9
1800	2.3		1.1	0.0	1.4			1.2	2.1	2.1			1.4	0.7
1930	2.4		0.9		1.1			1.4		1.9				0.4
2100		2.5	0.5		0.6	2.1	1.3			1.8				0.3
2230	2.4	2.4	0.3	0.0	0.5	1.7	1.2	1.4		1.6	1.4		1.4	0.2
2400	2.5	2.4	0.1	0.1	1.1	1.6	1.2	1.5	2.1	1.3	1.2	1.4	1.3	0.2
DATE	2-6	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19
TIME														
0130	0.2	0.2	1.1	0.4	0.4	1.0	1.1	0.4	1.0	0.2	0.2	0.1	0.3	0.6
0300	0.1	0.1	1.1	0.5		1.1			0.8		0.1			0.6
0430			1.0	0.6				0.4	0.5			0.1		0.7
0600			0.9	0.5				0.5	0.4			0.2		0.9
0730				0.4				1.1	0.3					1.0
0900		0.1	0.9	0.3	0.4		1.1	1.3						
1030		0.2	0.7		0.6		0.9	1.3						
1200		0.8	0.6		0.6	1.1	0.9	1.2	0.3		0.1			1.0
1330		1.1	1.0		0.7	1.2	1.1		0.2		0.2			0.9
1500		1.1	0.7	0.3	0.9	1.2	1.0	1.2				0.2		0.9
1630		0.6	0.4	0.4	0.9	1.1	0.9	1.1				0.3		0.8
1800		0.2	0.3	0.6	0.8		0.7				0.2			0.8
1930				0.9	0.9		0.5	1.1			0.1			0.7
2100	0.1	0.2	0.3	0.7	0.8		0.4	1.0						0.7
2230	0.2	0.4	0.4	0.5	0.9			1.1					0.3	0.6
2400	0.3	1.0	0.4	0.4	1.0	1.1	0.4	1.1	0.2	0.2	0.1	0.3	0.4	0.6
DATE	2-20	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5
TIME														
0130	0.6	0.2	0.1	0.0	0.1	0.0	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1
0300	0.6	0.2					0.1	0.1	0.1	0.2				0.1
0430	0.5	0.1					0.2		0.2	0.3	0.2			0.2
0600					0.1		0.3			0.2	0.1			0.2
0730				0.0	0.0	0.0	0.2							0.1
0900	0.5			0.1		0.1			0.1					
1030	0.4							0.2						
1200											0.1			
1330											0.2			
1500										0.2				
1630	0.4		0.1							0.3				
1800	0.3		0.0	0.1							0.2			0.1
1930				0.0			0.2		0.2	0.3	0.1			0.0
2100	0.3			0.1			0.3		0.1	0.2				0.0
2230	0.2						0.2		0.2					0.1
2400	0.2	0.1	0.0	0.1	0.0	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1

LAKE MICHIGAN, STATION 20, 30 m continued.

DATE	3-6	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19
TIME														
0130	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
0300														
0430														
0600														
0730														
0900						0.1								
1030						0.0			0.0					
1200									0.1					
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
DATE	3-20	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2
TIME														
0130	0.0	0.1	0.1	0.1	0.2	0.2	0.0	0.1	0.2	0.2	0.5	0.5	0.3	0.6
0300												0.4		0.7
0430				0.1										0.8
0600				0.2										
0730													0.3	
0900						0.2							0.4	0.8
1030						0.1						0.5	0.4	0.9
1200										0.2				
1330										0.3				0.9
1500										0.3				0.8
1630										0.4				0.9
1800								0.0		0.5				
1930								0.1		0.6		0.5	0.5	
2100	0.0					0.1				0.6				
2230	0.1					0.0			0.1	0.6				
2400	0.1	0.1	0.1	0.2	0.2	0.0	0.1	0.2	0.2	0.5	0.5	0.4	0.6	0.9
DATE	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16
TIME														
0130	0.9	1.0	1.0	0.8	0.8	1.0	1.1	1.1	1.0	1.0	1.1	1.1	1.2	1.2
0300														
0430				0.8										
0600			1.0	0.7										
0730	0.9		0.9		0.8	1.0								
0900	1.0			0.7	0.9	1.2				1.0				
1030				0.8						1.1				
1200			0.9											
1330			0.8											
1500								1.1						
1630					0.9			1.0						1.2
1800					1.0									1.1
1930														
2100						1.2								
2230						1.1						1.1		
2400	1.0	1.0	0.8	0.8	1.0	1.1	1.1	1.0	1.0	1.1	1.1	1.2	1.2	1.1

LAKE MICHIGAN, STATION 20, 30 m continued.

DATE	4-17	4-18	4-19	4-20	4-21	4-22	4-23	4-24	4-25	4-26	4-27	4-28	4-29	4-30
TIME														
0130	1.1	1.1	1.1											
0300														
0430														
0600														
0730														
0900														
1030														
1200			1.1											
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	1.1	1.1												

LAKE MICHIGAN - STATION 39. Depth 15 m.

Start 2 December 1962, 1650 CST; end 19 July 1963, 1000 CST.

Instrument serial no. 127, film record 20,185. No temperature correction.

DATE	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15
TIME														
0130		6.4	6.2	6.2	6.1	6.0	5.7	5.7	6.0	6.0	5.8	5.7	5.6	5.5
0300							5.7	5.8						
0430			6.2		6.1	6.0	5.6	5.8					5.6	
0600			6.1	6.2	6.0	5.9		5.9		6.0			5.5	5.5
0730				6.1	6.1			5.9	6.0	5.9			5.4	5.4
0900		6.4				5.9		6.0	5.9	5.8				
1030		6.3				5.8				5.8				
1200			6.1							5.7		5.7		
1330			6.2			5.8						5.6		
1500			6.1			5.7					5.8	5.5		
1630		6.3												
1800	6.5	6.2					5.6		6.0		5.7	5.6	5.4	
1930	6.4		6.1				5.7				5.7		5.5	
2100			6.2							5.7	5.8			
2230					6.1					5.8				
2400	6.4	6.2	6.2	6.1	6.0	5.7	5.7	6.0	6.0	5.8	5.8	5.6	5.5	5.4

LAKE MICHIGAN, STATION 39, 15 m continued.

DATE	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29
TIME														
0130	5.4	5.3	5.2	5.5	5.4	5.4	5.4	5.2	5.1	5.0	5.0	5.0	4.9	4.8
0300	5.3		5.3	5.4	5.3	5.3	5.3		5.0				4.8	
0430			5.4					5.2						4.8
0600			5.5					5.1				5.0		4.7
0730			5.4	5.4				5.0				4.9		4.7
0900				5.5										4.6
1030							5.3							
1200							5.1							
1330			5.4	5.5			5.0							
1500		5.3	5.5	5.4		5.3	5.1							
1630	5.3	5.2				5.4		5.0						
1800	5.4			5.4	5.3		5.1	5.1						
1930				5.5	5.4		5.2							
2100														
2230	5.4			5.5										
2400	5.3	5.2	5.5	5.4	5.4	5.4	5.2	5.1	5.0	5.0	5.0	4.9	4.8	4.6
DATE	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12
TIME														
0130	4.6	4.5	4.6	4.5	4.6	4.5	4.5	4.5	4.3	4.5	4.5	4.5	4.5	4.3
0300	4.5								4.4				4.5	
0430			4.6										4.4	4.3
0600			4.5		4.6									4.2
0730					4.5			4.5						
0900								4.4						
1030				4.5										
1200				4.6						4.5				
1330										4.4			4.4	
1500		4.5						4.4	4.4		4.5		4.3	
1630		4.6	4.5					4.5	4.5		4.6			
1800			4.6		4.5					4.4				
1930					4.6			4.5		4.5				
2100			4.6		4.6			4.4			4.6			
2230			4.5		4.5			4.4			4.5			
2400	4.5	4.6	4.5	4.6	4.5	4.5	4.5	4.3	4.5	4.5	4.5	4.5	4.3	4.2
DATE	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26
TIME														
0130	4.2	4.2	4.2	4.0	4.0	3.9	4.0	3.7	3.8	3.8	3.7	3.5	2.7	2.6
0300								3.7		3.7	3.7		2.8	2.5
0430								3.6			3.6		2.8	2.4
0600		4.2			4.0		4.0		3.8				2.7	2.4
0730		4.1	4.2		3.9		3.9	3.6	3.7		3.6		2.8	2.3
0900			4.1				3.9	3.5			3.5			
1030							3.8							
1200			4.1					3.5					2.8	
1330			4.0				3.8	3.6	3.7				2.7	
1500							3.9		3.8			3.5	2.6	
1630		4.1				3.9	3.9	3.6				3.3		
1800		4.2				4.0	3.8	3.7				3.3	2.6	
1930							3.8	3.8				3.0	2.5	
2100							3.7					2.9	2.5	2.3
2230												2.9	2.6	2.2
2400	4.2	4.2	4.0	4.0	3.9	4.0	3.7	3.8	3.8	3.7	3.5	2.8	2.6	2.2

LAKE MICHIGAN, STATION 39, 15 m continued.

DATE	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
TIME														
0130	2.2	2.1	2.0	2.5	2.4	2.3	2.5	2.5	2.5	2.5	2.5	2.5	2.2	2.0
0300			2.0	2.4	2.5		2.5			2.5				
0430	2.2		2.1				2.4				2.4			
0600	2.1		2.1	2.4	2.5						2.4			
0730			2.2	2.5	2.4		2.4		2.5				2.2	
0900			2.3	2.6			2.3		2.4				2.1	
1030		2.1	2.4				2.3					2.5	2.1	
1200	2.1	2.0	2.5	2.6			2.4					2.4	2.0	
1330	2.0		2.6	2.5	2.4		2.5			2.4			2.0	
1500	2.1		2.7		2.3	2.3				2.5		2.4	2.1	
1630			2.7			2.4			2.4			2.3		
1800			2.6			2.4		2.5	2.5					
1930				2.5		2.5		2.6			2.4	2.3	2.1	
2100			2.6	2.4							2.5	2.2	2.0	
2230			2.5											
2400	2.1	2.0	2.5	2.4	2.3	2.5	2.5	2.6	2.5	2.5	2.5	2.2	2.0	2.0
DATE	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23
TIME														
0130	2.0	2.0	1.5	1.2	1.0	1.0	1.0	0.8	0.7	0.7	0.7	0.7	0.7	0.7
0300	1.9	1.9			1.1		0.9			0.8	0.7			
0430	1.9	1.9								0.7	0.6			
0600	2.0	1.8		1.2			0.9	0.8				0.7	0.7	0.7
0730		1.7		1.1			0.8	0.7				0.6	0.6	0.6
0900			1.5	1.0										
1030			1.4											
1200			1.4				0.8							
1330			1.3				0.7					0.6		
1500	2.0				1.1							0.7		0.6
1630	1.9	1.7			1.0						0.6		0.6	0.7
1800		1.8									0.7		0.7	
1930	1.9	1.5												
2100	2.0	1.4					0.7							
2230			1.3				0.8							
2400	2.0	1.4	1.2	1.0	1.0	1.0	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7
DATE	2-24	2-25	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
TIME														
0130	0.7	0.7	0.7	0.6	0.7	0.7	0.6	0.6	0.5	0.6	0.6	0.6	0.7	0.7
0300			0.7				0.6							
0430			0.6				0.5							
0600						0.7		0.6						
0730						0.6		0.5						
0900									0.5					
1030									0.6					
1200														
1330														
1500														
1630													0.6	
1800												0.7		
1930														
2100				0.6										
2230				0.7										
2400	0.7	0.7	0.6	0.7	0.7	0.6	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.7

LAKE MICHIGAN, STATION 39, 15 m continued.

DATE	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23
TIME														
0130	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.5	0.5	0.4	0.5	0.5	0.5	0.5
0300										0.4				
0430		0.7								0.5				
0600		0.6							0.5					0.5
0730									0.4					0.6
0900		0.6					0.6							
1030		0.7					0.5							
1200						0.7								
1330						0.6								
1500														
1630														
1800														
1930														
2100														
2230														
2400	0.7	0.7	0.7	0.7	0.7	0.6	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.6
DATE	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6
TIME														
0130	0.6	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.9	1.0	1.0	1.0	1.1	1.1
0300														1.1
0430	0.6													1.2
0600	0.5					0.8								
0730						0.7								
0900													1.0	
1030		0.6						0.8					1.1	
1200		0.7						0.9						
1330														
1500														
1630						0.7								
1800						0.8			0.9					
1930	0.5				0.8				1.0					
2100	0.6													
2230														
2400	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.9	1.0	1.0	1.0	1.1	1.1	1.2
DATE	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20
TIME														
0130	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.4	1.4
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630								1.2						1.4
1800								1.3						1.5
1930														
2100												1.3		
2230												1.4		
2400	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.4	1.4	1.5

LAKE MICHIGAN, STATION 39, 15 m continued.

DATE	4-21	4-22	4-23	4-24	4-25	4-26	4-27	4-28	4-29	4-30	5-1	5-2	5-3	5-4
TIME														
0130	1.5	1.6	1.7	1.8	1.9	1.9	1.9	1.9	2.0	1.9	2.0	2.0	2.1	2.1
0300									1.9					
0430												2.0		
0600		1.6								1.9		2.1		
0730		1.7								2.0				
0900														
1030								1.9						
1200								2.0						
1330	1.5													
1500	1.6													
1630			1.7											
1800			1.8											
1930														
2100				1.8										
2230				1.9										
2400	1.6	1.7	1.8	1.9	1.9	1.9	1.9	2.0	1.9	2.0	2.0	2.1	2.1	2.1
DATE	5-5	5-6	5-7	5-8	5-9	5-10	5-11	5-12	5-13	5-14	5-15	5-16	5-17	5-18
TIME														
0130	2.1	2.1	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.5	2.5	2.6
0300														
0430														
0600														
0730		2.1												
0900		2.2												
1030														
1200				2.2										
1330				2.3										
1500													2.5	
1630													2.6	
1800											2.4			
1930											2.5			
2100									2.3					
2230									2.4					
2400	2.1	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.5	2.5	2.6	2.6
DATE	5-19	5-20	5-21	5-22	5-23	5-24	5-25	5-26	5-27	5-28	5-29	5-30	5-31	6-1
TIME														
0130	2.6	2.6	2.6	2.6	2.7	2.8	2.9							
0300														
0430					2.7									
0600	2.6				2.8	2.8								
0730	2.5					2.9								
0900	2.6			2.6										
1030				2.7										
1200														
1330							2.9							
1500														
1630														
1800														
1930														
2100														
2230														
2400	2.6	2.6	2.6	2.7	2.8	2.9								

Film torn
away.
Data ends.

LAKE MICHIGAN - STATION 39. Depth 30 m.

Start 2 December 1962, 1650 CST; end 19 July 1963, 1000 CST.

Instrument serial no. 128, film record 20,186. No temperature correction.

DATE	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15
TIME														
0130		6.0	6.0	6.0	5.9	5.8	5.5	5.6	5.9	6.0	5.7	5.6	5.5	5.3
0300						5.7		5.6		6.0			5.5	
0430								5.7		5.9			5.4	
0600					5.9	5.7							5.3	
0730		6.0			6.0	5.6			5.9	5.9				
0900		6.1						5.7	5.8	5.8				
1030		6.0				5.6		5.8		5.8				
1200		6.0				5.5				5.7		5.6		
1330		5.9			6.0					5.6		5.4		
1500					5.9			5.8						
1630		5.9						5.9						
1800	6.2	5.8							5.8			5.4		
1930	6.1	5.9							5.9	5.6		5.5		
2100	6.0	5.9			5.9					5.7				
2230		6.0			5.8				6.0					
2400	6.0	6.0	6.0	6.0	5.8	5.5	5.5	5.9	6.0	5.7	5.7	5.5	5.3	5.3

DATE	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29
TIME														
0130	5.3	5.3	5.0	5.5	5.3	5.2	5.2	5.0	5.0	4.9	4.9	4.9	4.6	4.5
0300			5.2	5.4	5.3							4.9		
0430			5.3	5.3	5.2	5.2	5.2					4.8		
0600				5.3		5.1	5.1			4.9		4.7		4.5
0730				5.4						4.8				4.4
0900				5.5										
1030		5.3					5.1							
1200		5.2				5.1	4.9							
1330		5.1		5.5		5.2						4.7		
1500		5.0		5.4			4.9					4.6		
1630			5.3	5.3			5.0						4.6	
1800			5.4										4.5	
1930														
2100			5.4											4.4
2230			5.5							4.8				4.3
2400	5.3	5.0	5.5	5.3	5.2	5.2	5.0	5.0	5.0	4.9	4.9	4.6	4.5	4.3

DATE	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12
TIME														
0130	4.3	4.3	4.5	4.2	4.2	4.2	4.3	4.4	4.0	4.3	4.5	4.3	4.3	4.0
0300						4.3			4.1					
0430			4.5					4.4	4.2	4.3			4.3	
0600			4.4					4.3		4.2	4.5		4.2	
0730							4.2		4.2	4.1	4.4		4.2	
0900							4.2		4.1		4.4		4.1	
1030							4.3		4.1	4.1	4.3			
1200							4.3		4.2	4.2				
1330		4.3	4.4				4.4		4.2					
1500		4.4	4.3						4.3				4.1	
1630													4.0	
1800								4.3		4.2				
1930								4.2		4.3				
2100			4.3					4.1		4.4				
2230		4.4	4.2					4.0						
2400	4.3	4.5	4.2	4.2	4.2	4.3	4.4	4.0	4.3	4.4	4.3	4.3	4.0	4.0

LAKE MICHIGAN, STATION 39, 30 m continued.

DATE	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26
TIME														
0130	4.0	4.0	4.0	3.7	3.8	3.7	3.8	3.5	3.5	3.5	3.5	3.3	2.9	2.7
0300					3.7									2.7
0430														2.6
0600							3.8				3.5			2.5
0730							3.7				3.4			2.4
0900				3.7				3.5						
1030			4.0	3.8				3.4						
1200			3.9											
1330							3.7		3.5		3.4		2.9	
1500			3.9			3.7	3.6	3.4	3.6		3.3	3.3	2.8	
1630			3.8			3.8		3.5				3.2		
1800												3.1	2.8	2.4
1930										3.5		3.0	2.7	2.3
2100							3.6			3.6		2.9	2.6	
2230							3.5		3.6	3.6				2.3
2400	4.0	4.0	3.8	3.8	3.7	3.8	3.5	3.5	3.5	3.5	3.3	2.9	2.6	2.2
DATE	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
TIME														
0130	2.2	2.0	2.0	2.6	2.7	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.3	1.9
0300			2.0	2.6	2.6	2.4	2.6		2.4				2.2	1.8
0430			2.1	2.5	2.5	2.5	2.4						2.1	
0600			2.1			2.6	2.4							
0730		2.0	2.2	2.5		2.6	2.5							
0900	2.2	2.1	2.2	2.6		2.5								
1030	2.1	2.1	2.3	2.7		2.4							2.1	
1200		2.0	2.5				2.5						2.0	1.8
1330	2.1		2.6	2.7	2.5		2.6					2.5	2.1	
1500	2.0	2.0	2.7	2.6	2.6				2.4			2.4	2.3	1.9
1630		1.9							2.5			2.4	2.3	1.8
1800		1.9	2.7	2.6	2.6	2.4	2.6					2.3	2.2	
1930		2.0	2.6	2.5	2.5	2.5	2.5						2.2	
2100													2.0	
2230		2.0	2.6	2.5	2.5								1.9	
2400	2.0	2.1	2.5	2.6	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.3	1.9	1.8
DATE	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23
TIME														
0130	1.8	1.9	1.4	1.3	1.2	0.9	0.6	0.4	0.4	0.3	0.3	0.3	0.2	0.2
0300		1.8	1.4	1.4	1.3	0.8								
0430		1.6	1.6	1.5	1.1	0.7								
0600	1.8	1.5			1.0	0.6						0.3		
0730	1.7			1.5								0.2		
0900		1.5	1.6	1.3			0.6		0.4					
1030		1.6	1.5	1.1			0.5		0.3					
1200		1.8	1.3	1.1							0.3			
1330		1.9	1.5	1.2							0.4			
1500	1.7	1.8	1.8	1.0	1.0									0.2
1630	1.8	1.9	1.7	1.2	0.9									0.1
1800		1.4	1.6	1.3								0.4		
1930		1.3	1.4								0.3			
2100		1.5	1.3	1.3			0.5							
2230	1.8	1.4	1.4	1.1			0.4							
2400	1.9	1.4	1.3	1.3	0.9	0.6	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.1

LAKE MICHIGAN, STATION 39, 30 m continued.

DATE	2-24	2-25	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
TIME														
0130	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
0300														
0430														
0600										0.2				
0730	0.2									0.1				
0900	0.1		0.1											
1030			0.2											
1200			0.1							0.1				
1330										0.2				
1500	0.1													
1630	0.2										0.2			
1800				0.2							0.1			
1930				0.1										
2100														
2230														
2400	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
DATE	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23
TIME														
0130	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
0300											0.2		0.2	0.1
0430											0.1		0.1	
0600												0.2		
0730						0.1			0.2			0.1		
0900						0.2			0.1					0.1
1030										0.2			0.1	0.2
1200										0.1			0.2	
1330														
1500												0.1		
1630										0.1	0.1	0.2		
1800						0.2			0.1	0.2	0.2			
1930						0.1		0.1	0.2					
2100								0.2						
2230														
2400	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
DATE	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6
TIME														
0130	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.6	0.7	0.7	0.9	0.9	1.0	1.0
0300														
0430		0.2					0.4							
0600		0.3					0.5							
0730														
0900														
1030										0.7				
1200										0.8				
1330														
1500												0.9		
1630												1.0		
1800														
1930				0.3										
2100				0.4			0.5			0.8				
2230							0.6			0.9				
2400	0.2	0.3	0.3	0.4	0.4	0.4	0.6	0.6	0.7	0.9	0.9	1.0	1.0	1.0

LAKE MICHIGAN, STATION 39, 30 m continued.

DATE	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20
TIME														
0130	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.2	1.1	1.2	1.3	1.4	1.4	1.5
0300														
0430						1.1								
0600			1.1			1.0		1.2						
0730			1.0					1.1						
0900									1.1	1.2				
1030		1.0							1.2	1.3		1.4		
1200		1.1	1.0								1.3	1.3		
1330			1.1								1.4		1.4	
1500						1.0							1.5	
1630						1.1	1.1							
1800							1.2					1.3		
1930												1.4		
2100														
2230														
2400	1.0	1.1	1.1	1.1	1.1	1.1	1.2	1.1	1.2	1.3	1.4	1.4	1.5	1.5
DATE	4-21	4-22	4-23	4-24	4-25	4-26	4-27	4-28	4-29	4-30	5-1	5-2	5-3	5-4
TIME														
0130	1.5	1.6	1.7	1.7	1.8	1.8	1.9	2.0	2.0	2.0	2.1	2.1	2.3	2.4
0300														
0430														
0600														
0730						1.8								
0900						1.9								
1030				1.7										
1200		1.6		1.8			1.9					2.1		
1330		1.7					2.0					2.2		
1500	1.5													
1630	1.6												2.3	
1800													2.4	
1930														
2100										2.0				
2230										2.1		2.2	2.3	
2400	1.6	1.7	1.7	1.8	1.8	1.9	2.0	2.0	2.0	2.1	2.1	2.3	2.4	2.4
DATE	5-5	5-6	5-7	5-8	5-9	5-10	5-11	5-12	5-13	5-14	5-15	5-16	5-17	5-18
TIME														
0130	2.4	2.4	2.3	2.2	2.2	2.4	2.6							
0300														
0430														
0600		2.4			2.2		2.6							
0730		2.3			2.3									
0900														
1030						2.4								
1200			2.3			2.5								
1330			2.2		2.3									
1500					2.4									
1630														
1800														
1930														
2100														
2230														
2400	2.4	2.3	2.2	2.2	2.4	2.5								

LAKE MICHIGAN - STATION 39. Depth 60 m.

Start 2 December 1962, 1650 CST; end 19 July 1963, 1000 CST.

Instrument serial no. 125, flim record 20,187. No temperature correction.

DATE	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15
TIME														
0130		5.7	5.9	5.9	5.9	5.7	5.5	5.4	5.7	5.7	5.5	5.5	5.3	5.2
0300		5.8	5.9	6.0						5.7	5.6			
0430		5.8	5.8	6.0						5.8		5.5		
0600		5.9	5.7	5.8						5.8		5.4		
0730		5.9	5.8	5.8		5.7				5.7	5.6	5.4	5.3	
0900		6.0		5.9	5.9	5.6				5.7	5.7	5.5	5.2	
1030		5.7			5.6			5.4		5.6				
1200		5.8			5.8			5.5		5.6				
1330		5.8	5.8		5.9			5.5		5.5	5.7			
1500		5.9	5.9		5.8	5.6		5.6		5.4	5.6	5.5		
1630		5.8	5.8	5.9	5.6	5.5						5.4		
1800	6.0	5.7		5.8	5.7		5.4				5.6	5.3		
1930		5.7			5.8		5.5	5.6			5.5			
2100	6.0	5.8	5.8	5.8				5.7		5.4				
2230	5.8	5.9	5.9	5.7	5.8					5.5				
2400	5.9	5.9	5.9	5.9	5.7	5.5	5.5	5.7	5.7	5.5	5.5	5.3	5.2	5.2

DATE	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29
TIME														
0130	5.2	5.2	5.0	5.2	5.2	5.2	5.1	4.9	4.9	4.9	4.8	4.8	4.8	4.7
0300		5.1												4.6
0430														4.5
0600			5.0	5.2										
0730			5.1	5.1				4.9			4.8			
0900			5.2					5.0			4.9		4.8	
1030				5.1									4.7	
1200				5.2			5.1							
1330						5.2	5.0							4.5
1500						5.1	5.0							4.4
1630		5.1					4.9			4.9				
1800		5.0						5.0		4.8	4.9			
1930								4.9			4.8			4.4
2100														4.3
2230				5.2										
2400	5.2	5.0	5.2	5.1	5.2	5.1	4.9	4.9	4.9	4.8	4.8	4.8	4.7	4.3

DATE	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12
TIME														
0130	4.3	4.3	4.2	4.2	4.2	4.1	4.1	4.2	4.2	4.2	4.1	4.1	4.1	4.1
0300		4.3									4.2			
0430		4.2												
0600														
0730														
0900								4.1						
1030								4.2						
1200					4.2						4.2			
1330					4.1						4.1			
1500					4.2									
1630					4.1					4.2				
1800										4.1				
1930														
2100													4.1	
2230											4.1		4.0	
2400	4.3	4.2	4.2	4.1	4.1	4.1	4.2	4.2	4.2	4.1	4.0	4.1	4.0	4.1

LAKE MICHIGAN, STATION 39, 60 m continued.

DATE	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26
TIME														
0130	4.1	4.0	4.0	3.9	3.9	3.8	3.8	3.7	3.6	3.6	3.5	3.2	3.0	3.0
0300														3.0
0430					3.9									2.9
0600					3.8									2.9
0730														3.0
0900														2.9
1030							3.8				3.5			2.8
1200						3.7		3.7			3.4			3.0
1330								3.6			3.3		3.0	2.8
1500													2.9	2.9
1630					3.8							3.2		
1800	4.1				3.7							3.1		
1930	4.0													
2100			4.0											
2230			3.9							3.6	3.3		2.9	
2400	4.0	4.0	3.9	3.9	3.8	3.7	3.7	3.6	3.6	3.5	3.2	3.1	3.0	2.9
DATE	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
TIME														
0130	2.8	2.6	2.5	2.6	2.6	2.6	2.4	2.5	2.4	2.4	2.4	2.4	2.2	2.1
0300	2.8		2.6				2.6						2.1	2.0
0430	2.7		2.6		2.6		2.5							2.0
0600	2.6		2.7	2.6	2.7	2.6	2.4	2.5						2.1
0730	2.7		2.8	2.7		2.5	2.6	2.4				2.4	2.1	2.1
0900			2.7		2.7	2.6	2.7	2.5				2.3	2.0	2.0
1030	2.7	2.6	2.6		2.6	2.7	2.5							2.3
1200	2.6	2.7	2.5				2.6						2.0	2.1
1330	2.5												2.1	2.1
1500	2.4	2.7		2.7		2.7							2.2	2.0
1630	2.5	2.6	2.5	2.6		2.6	2.6		2.4				2.2	2.4
1800			2.6			2.5	2.5		2.5			2.3	2.3	2.1
1930			2.6			2.6			2.4				2.2	2.0
2100	2.5		2.7			2.4							2.1	
2230	2.6					2.6								2.0
2400	2.6	2.6	2.7	2.6	2.6	2.4	2.5	2.5	2.4	2.4	2.4	2.2	2.1	2.1
DATE	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23
TIME														
0130	1.9	2.0	2.0	1.8	1.9	1.9	1.5	1.3	1.6	1.7	1.4	2.0	1.5	2.2
0300	2.0		1.9	1.8		1.8	1.6	1.3	1.8	1.8	1.6	1.9	1.5	2.0
0430	2.0			1.9		1.7	1.5	1.4	1.9	1.7	1.4	1.9	1.4	2.2
0600	1.9			1.8		1.7	1.4	1.5	1.8	1.5	1.2	1.3	1.2	2.0
0730			1.9	1.9		1.6	1.3			0.9	1.4	1.5	0.9	2.0
0900			2.0	1.8			1.1			1.0	1.8	1.1	0.8	1.7
1030			1.9			1.6	1.0	1.5		1.3	2.0	1.1	2.0	1.6
1200	1.9	2.0				1.7	1.3	1.4	1.8	1.4	1.9	1.3	2.1	2.0
1330	2.0	1.9				1.6	1.4	1.4	1.7	1.2	2.0	1.6	2.1	1.9
1500	2.2	1.9		1.8		1.2		1.5	1.5	1.2	1.9	1.4	1.3	1.8
1630	2.0	2.0	1.9	1.9		1.5	1.7	1.4	1.2	1.8	1.2			1.9
1800			1.8			1.6	1.9	1.5	1.0	2.0	1.0	1.3		2.0
1930			1.9			1.5	1.9	1.6	1.2		0.9	1.2		2.0
2100						1.5	1.4	2.0		1.4	2.0	1.0	1.3	2.1
2230			1.9			1.4	1.3	1.3		1.5	1.9	1.0	2.1	2.2
2400	2.0	2.0	1.8	1.9	1.9	1.5	1.0	1.5	1.6	1.6	2.0	1.3	2.1	2.1

LAKE MICHIGAN, STATION 39, 60 m continued.

DATE	2-24	2-25	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
TIME														
0130	2.0	2.0	1.4	1.4	0.9	1.0	1.0	0.9	0.9	1.0	0.3	0.7	0.3	0.2
0300	1.4		1.3	1.5	0.8	1.1	0.5	0.7	1.0			0.3		
0430	1.7	2.0	1.8	1.1	1.1	0.8	1.0	0.8					0.3	
0600	1.8	1.9	2.0	0.8		0.7	0.6	1.0		1.0			0.5	
0730	1.9	1.2		1.3	1.1	0.8				0.8			0.3	
0900	2.0	1.8	2.0	0.8	1.0	0.9			1.0	0.7		0.3	0.5	
1030		1.8	1.4	0.9	1.1	1.0			0.9	0.4		0.5	0.2	
1200	2.0	2.0	0.9	0.8		0.8	0.6		1.3			0.3		
1330	2.1	1.9	1.4	1.0		0.7	1.0		1.2					
1500	2.1	2.0	0.9	1.2	1.1	0.5	1.0	1.0	0.9	0.4	0.3			
1630	1.3	2.1	1.4	1.5	0.9	1.0	0.8	0.9	1.1	0.7	0.5			
1800	1.0	2.0	1.2	0.8	1.0	0.7	1.0	0.6	0.9	0.3	0.3	0.3		
1930	1.6	2.0	1.4	0.8	0.9	0.5	0.8	1.0	1.2	0.2		0.6		
2100	2.0	1.9	1.1	1.0	1.1	0.4	0.6	0.8	1.1			0.3		
2230		1.2	1.2	0.5	1.2	0.6	0.8	1.0	0.9			0.7		
2400	2.0	1.3	0.8	0.9	1.0	0.9	0.9	0.9	0.8	0.2	0.3	0.3	0.2	0.2
DATE	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23
TIME														
0130	0.2	0.5	0.4	0.9	0.2	0.2	0.2	0.3	0.7	0.2	0.2	0.2	0.4	0.3
0300		0.4					0.2	0.2	0.6				0.3	
0430				0.9	0.2		0.4	0.4	0.5			0.2		
0600				0.8	0.5		0.5	0.2	0.3			0.3		
0730				0.4	0.2		0.4	0.3		0.2				
0900				0.3		0.2	0.3	0.4		0.3				
1030				0.6		0.3	0.2			0.2				
1200		0.4		1.0		0.4					0.2	0.3		
1330		0.7	0.4								0.2			
1500		0.6	0.5	1.0					0.3					
1630		0.7	0.9	0.8	0.2	0.4		0.4	0.2					
1800		0.3	1.0	1.0	0.3	0.1	0.2	0.3	0.3			0.3		
1930		0.2	1.1	0.4	0.2		0.4		0.4			0.4		
2100	0.2	0.3	1.0	0.2		0.1	0.3	0.3	0.2			0.5		
2230	0.4	0.4	1.0			0.2	0.2	0.4						
2400	0.5	0.4	0.9	0.2	0.2	0.2	0.1	0.6	0.2	0.2	0.2	0.5	0.3	0.3
DATE	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6
TIME														
0130	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.8	0.8
0300												0.7		
0430					0.4									
0600					0.5					0.6				
0730									0.5					
0900														
1030									0.5					
1200									0.6					
1330														
1500				0.3										
1630				0.4			0.5							
1800							0.4	0.5						
1930								0.6						
2100														
2230														
2400	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.6	0.6	0.6	0.7	0.7	0.8	0.8

LAKE MICHIGAN, STATION 39, 60 m continued.

DATE	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20
TIME														
0130	0.8	0.8	0.9	0.8	1.0	0.8	0.9	0.9	0.9	0.9	1.0	1.1	1.3	1.5
0300		0.8										1.1		
0430		0.9										1.2		
0600													1.3	
0730													1.4	
0900				0.8										
1030				0.9	1.0									
1200	0.8				0.9									
1330	0.9		0.9									1.2		
1500		0.9	0.8		0.9					0.9		1.3		
1630		0.8			0.8					1.0				
1800				0.9							1.0			
1930				0.8							1.1			
2100	0.9	0.8											1.4	
2230	0.8	0.9		0.8									1.5	
2400	0.8	0.9	0.8	0.9	0.8	0.8	0.9	0.9	0.9	1.0	1.1	1.3	1.5	1.5
DATE	4-21	4-22	4-23	4-24	4-25	4-26	4-27	4-28	4-29	4-30	5-1	5-2	5-3	5-4
TIME														
0130	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.8	1.9	
0300												1.9		
0430														
0600														
0730														
0900													1.9	
1030														Record torn
1200														off at 0730
1330														
1500			1.5			1.6								
1630			1.6			1.5								
1800						1.5								
1930						1.6								
2100							1.6							
2230							1.7							
2400	1.5	1.5	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.9		

LAKE MICHIGAN - STATION 39. Depth 90 m.

Start 2 December 1962, 1650 CST; end 19 July 1963, 1000 CST.

Instrument serial no. 122, film record 20,188. No temperature correction.

DATE	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15
TIME														
0130		4.7	5.0	4.3	4.7	5.0	5.1	5.2	5.4	5.9	5.7	5.8	5.4	5.3
0300		4.8	4.8	4.3	4.8	5.3	5.3	5.1	5.5	5.8				
0430		4.8	4.6	4.2		5.2	5.4	5.3	5.4	5.9				
0600		4.9	4.5	4.3	4.8	4.7	5.6	5.6	5.7		5.7	5.8		5.3
0730		5.3	4.5	4.5	4.9	5.3	5.3	5.5	5.8	5.9	5.8	5.7		5.4
0900		4.8	4.6	4.6	4.8	5.0	4.9	5.2	5.9	5.8		5.6		
1030		4.7			4.9	5.0	4.8	5.4		5.7		5.5		
1200		4.7	4.6	4.6		5.3	5.2	5.3				5.4	5.4	
1330		4.8	4.5	4.5	4.9	5.4	5.2	5.1			5.8		5.2	
1500		4.9	4.4	4.3	4.8	4.7	4.8	5.3			5.7			
1630		4.8	4.2	4.2	5.0	5.3	5.3	5.4	5.9	5.7			5.2	
1800	4.9	4.8	4.2	4.1	5.2		5.3	5.3	5.8	5.6	5.7		5.1	5.4
1930	4.8	5.0			4.9		5.1	5.2		5.7	5.8		5.2	5.3
2100	4.7	5.0	4.2	4.1	5.0	5.3	5.0	5.4	5.8					5.3
2230	4.6	5.1	4.3	4.3		4.8	5.3	5.5	5.9					5.2
2400	4.7	5.2	4.3	4.5	5.0	5.3	5.4	5.5	5.9	5.7	5.8	5.4	5.2	5.2

DATE	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29
TIME														
0130	5.3	5.3	5.2	5.2	5.3	5.2	5.2	5.1	5.1	5.0	5.0	5.0	4.8	4.8
0300			5.2				5.2							
0430			5.3	5.2			5.1							
0600		5.3		5.3			5.0		5.1			5.0		
0730	5.3	5.2			5.3		5.0	5.1	5.0			4.9		
0900	5.2			5.3	5.2		4.9	5.0						
1030	5.2			5.2			5.0							
1200	5.3	5.2		5.3						5.0				
1330	5.4	5.1								4.9				
1500														
1630														
1800														
1930														
2100	5.4											4.9		
2230	5.3	5.1	5.3									4.8		
2400	5.3	5.2	5.2	5.3	5.2	5.2	5.0	5.0	5.0	4.9	5.0	4.8	4.8	4.8

DATE	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12
TIME														
0130	4.8	4.7	4.5	4.5	4.4	4.3	4.2	4.3	4.2	4.3	4.3	4.2	4.2	4.1
0300									4.2					
0430									4.3	4.3				
0600		4.7								4.2				
0730		4.6					4.2							
0900							4.3							
1030														
1200					4.4						4.3			
1330				4.5	4.3					4.2	4.2		4.2	
1500	4.8	4.7		4.4						4.1			4.1	
1630	4.7	4.5												
1800														
1930								4.3		4.1				
2100						4.3		4.2		4.2				
2230						4.2								
2400	4.7	4.5	4.5	4.4	4.3	4.2	4.3	4.2	4.3	4.2	4.2	4.2	4.1	4.1

LAKE MICHIGAN, STATION 39, 90 m continued.

DATE	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26
TIME														
0130	4.1	4.1	4.0	4.0	3.9	3.9	3.8	3.8	3.8	3.8	3.7	3.2	3.2	3.1
0300								3.8						3.2
0430								3.7						
0600						3.9								
0730					3.9	3.8							3.2	
0900		4.1						3.7			3.7		3.1	3.2
1030		4.0						3.8			3.6			3.1
1200				4.0				3.8						3.0
1330				3.9				3.7						3.0
1500								3.8					3.1	3.1
1630											3.6	3.2	3.2	3.2
1800										3.8	3.5	3.1		
1930										3.7	3.3			
2100					3.8						3.4	3.1		
2230					3.9						3.2	3.2		
2400	4.1	4.0	4.0	3.9	3.9	3.8	3.8	3.8	3.8	3.7	3.2	3.2	3.2	3.2
DATE	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
TIME														
0130	3.2	2.9	3.1	3.0	3.0	2.9	3.0	2.8	3.0	2.8	2.9	2.7	2.9	3.1
0300	3.2	3.0	3.0				2.6		3.0	2.9	2.9	2.8	2.8	3.1
0430	3.1		3.0		3.0	2.9	2.8		2.6	3.0	2.8	2.9	2.6	3.0
0600		3.0	3.1		2.9	3.0	2.9	2.8	2.6	3.0	2.7	3.0	2.4	
0730	3.1	3.1	3.1		2.8	3.0	3.0	2.9	2.7	2.8	2.7	3.0	2.6	
0900	3.0	3.1	3.0		2.9	2.9		2.8	2.9	2.9	2.8	2.9	2.8	3.0
1030		3.0			3.0	2.8			2.8	2.8	2.8	2.7	2.7	3.1
1200						2.8	3.0		3.0	2.7	2.9	2.5	2.9	3.1
1330		3.0		3.0		2.9	2.9		2.8	2.8		2.6	2.9	3.0
1500	3.0	2.9	3.0	2.9	3.0	2.9	2.8		2.8	2.8	2.9	2.5	2.8	2.8
1630	3.1	2.9	3.1		2.9	3.0		2.8	3.1	2.7	3.0	2.7	2.8	2.7
1800	3.2	2.8	3.0		3.0			2.9	3.1	2.7	2.9	2.9	2.9	3.0
1930	3.1			2.9			2.9		2.7	2.8	2.8		3.1	3.0
2100		2.8	3.0	2.8		3.0	2.9	2.9		2.8	2.8	2.9	3.0	3.1
2230	3.1	3.0	2.9	2.9	3.0	2.9	2.8	2.8		2.9	2.7	2.8	3.1	3.0
2400	3.0	3.1	2.9	2.9	2.9	3.0	2.8	2.9	2.7	2.9	2.7	2.8	3.1	3.0
DATE	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23
TIME														
0130	2.8	2.8	2.3	2.6	2.8	2.8	2.8	2.8	2.4	2.4	2.5	2.4	2.7	2.7
0300	2.9		2.4	2.5		2.7	2.8	2.6		2.5	2.5	2.3		
0430	2.9	2.8	2.5	2.6		3.0	2.9	2.7		2.6	2.6	2.4		
0600	3.0	2.9	2.4	2.6			3.0	2.7		2.7		2.5		
0730	2.9	2.7	2.5	2.8		3.0		2.6		2.7	2.6	2.6		
0900		2.5	2.6			2.8	3.0			2.5	2.5			
1030		2.6	2.5	2.8	2.8	2.3	2.9		2.4					
1200	2.9	2.8	2.3	2.9	2.7	2.7		2.6	2.5					2.7
1330	2.8	2.6	2.4	2.9	2.7	2.9	2.9	2.5	2.6					2.6
1500		2.7	2.6	2.8	2.8	2.9	2.4	2.5	2.6	2.5	2.5			
1630		2.9	2.7		2.8	2.8	2.6	2.4	2.5	2.6	2.6	2.6		
1800		2.4	2.6	2.8	2.9	3.0	2.8	2.3		2.6	2.5	2.7		
1930	2.8	2.6	2.7	2.7	3.0	2.8	2.8	2.4		2.7				
2100	2.9	2.6	2.8	2.6		3.0	2.9			2.7				
2230	2.8	2.3	2.9	2.8	3.0	2.8	2.9			2.6				
2400	2.7	2.4	2.8	2.8	2.8	2.9	2.8	2.4	2.5	2.6	2.5	2.7	2.7	2.6

LAKE MICHIGAN, STATION 39, 90 m continued.

DATE	2-24	2-25	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
TIME														
0130	2.6	2.6	2.6	2.6	2.6	2.5	2.6	2.6	2.6	2.6	2.6	2.5	2.7	2.7
0300				2.6	2.6					2.6		2.5		
0430				2.5	2.5					2.7		2.6		
0600			2.6					2.6			2.6			
0730			2.7					2.5			2.7			
0900				2.5							2.6			
1030				2.6				2.5						
1200	2.6		2.7	2.5				2.6		2.7				
1330	2.5		2.6			2.5			2.6	2.6				
1500			2.5			2.6			2.7	2.7				
1630														
1800			2.5								2.6			2.7
1930	2.5		2.6								2.5			2.6
2100	2.6			2.5					2.6					2.5
2230				2.6						2.7	2.5			2.5
2400	2.6	2.6	2.6	2.6	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.7	2.6
DATE	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23
TIME														
0130	2.5	2.6	2.6	2.6	2.7	2.7	2.8	2.5	2.6	2.7	2.8	2.7	2.7	2.7
0300		2.5			2.7	2.7	2.7		2.5				2.7	
0430	2.5				2.6	2.8	2.4			2.7		2.7	2.6	2.7
0600	2.6	2.5			2.6	2.9	2.4			2.6		2.6	2.8	2.6
0730		2.6		2.6	2.5	2.9	2.5			2.6	2.8	2.5		2.8
0900		2.5		2.7		2.8				2.7	2.7	2.4		2.8
1030	2.6			2.7	2.5	2.7			2.5			2.5		2.6
1200	2.5	2.5		2.6	2.6	2.7			2.6			2.7	2.8	2.4
1330	2.4	2.4		2.5	2.6	2.6			2.7	2.7	2.7	2.8	2.6	
1500	2.4	2.4		2.4	2.7			2.5	2.5	2.8	2.6	2.9	2.4	2.4
1630	2.5	2.5		2.4	2.8			2.6				3.0	2.5	2.5
1800	2.7	2.6	2.6	2.5		2.6						2.8	2.6	2.6
1930	2.6	2.5	2.7	2.6	2.8	2.7				2.8	2.6	2.7	2.7	2.5
2100		2.6		2.7	2.7	2.8			2.5	2.7	2.7	2.5		2.6
2230									2.7	2.7		1.8		
2400	2.6	2.6	2.7	2.7	2.7	2.8	2.5	2.6	.27	2.8	2.7	2.0	2.7	2.6
DATE	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6
TIME														
0130	2.6	2.3	2.2	1.9	2.5	2.2	2.5	2.0	2.0	2.1	2.0	2.7	2.4	1.4
0300		2.4	2.0	1.9		2.3	2.5	2.0	2.0	2.2	1.4	2.5	2.2	1.4
0430		2.4	2.0	2.3	2.5	2.3	1.9	2.4	2.3	1.9	1.4	2.3	2.1	2.1
0600		2.6	1.6	2.4	2.0	2.5	2.0		2.1	1.8	2.0	2.1	2.3	2.6
0730	2.6	2.6	1.8	2.2	1.2		2.1	2.4	1.8	2.1	2.4	2.0	1.9	2.8
0900	2.0	2.5	2.3	2.4	2.0		2.3	2.3	2.0	2.2	2.1	2.3	1.6	2.7
1030	2.7	2.3	2.5	2.5	2.2		2.1	2.1	2.4	1.9	2.2	1.7	1.4	2.0
1200	2.4	2.1	2.7	2.5	2.4	2.5	2.5	2.0	2.3	1.4	2.1	2.3	1.3	1.5
1330	2.4	1.2	2.7	2.4	2.5	2.0		2.0	2.1	1.9	1.9	1.5	2.1	1.5
1500	2.5	1.1	2.2	2.2		1.9		1.9	2.2	2.2	2.1	1.6	2.3	2.1
1630	2.6	1.8	2.5	1.9		2.2		2.1	1.9	2.3	2.2	1.7	2.5	2.1
1800		2.2	2.5	1.9		2.4	2.5	2.3		2.2	1.9	1.7	2.8	2.0
1930		2.3	2.6	2.2		2.5	2.1	2.6		2.1	2.3	1.6	2.4	2.3
2100	2.6	2.5	2.3	2.1	2.5		2.0	2.5		2.0	2.6	1.7	1.6	2.3
2230	2.0	2.5	2.5	2.5	1.9			2.1	1.9	2.4	2.7	1.8		1.5
2400	2.3	2.3	1.9	2.5	2.2	2.5	2.0	2.1	2.1	2.3	2.7	1.9	1.6	2.0

LAKE MICHIGAN, STATION 39, 90 m continued.

DATE	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20
TIME														
0130	2.3	1.7	1.7	2.5	1.7	1.7	1.7	2.4	1.6	1.6	2.2	1.8	1.8	2.7
0300	2.3	1.8	1.6	2.4	1.6	1.8	1.6	2.3			1.9	1.8		2.6
0430	1.9	1.9	1.5	2.1	1.9	1.9	1.5	2.2			1.9	1.9		2.2
0600	1.6	2.3	1.5	1.9	2.2	2.0	1.5	2.3	1.6	1.6	1.7	2.1		2.0
0730	1.7	2.0	1.7	2.0	2.1	2.0	1.6	2.1	1.9	1.7	1.8	2.0	1.8	1.9
0900	2.0	1.8	2.3	1.7	1.9	2.1	2.2	1.9	2.1	1.7	1.8	1.9	1.9	2.0
1030	1.7	1.7	2.5	1.6	1.6	1.9	2.3	1.6	2.1	1.6	1.9	1.8	1.8	2.1
1200	1.8	1.4	2.2	1.9	1.9	1.6	2.3	1.6	1.9		2.0	1.7		2.4
1330	2.2	1.7	2.2	2.4	2.2	1.4	2.2	1.7	1.8	1.6	1.9		1.8	2.6
1500	2.2	2.1	2.0	2.4	2.1	1.3		1.8	1.7	1.7	2.0	1.7	1.7	2.7
1630	1.8	2.0	1.8	1.9	1.9	1.4		2.2	1.6	1.9	2.1	1.8		2.6
1800	1.7	2.1	1.6	1.9	1.7	1.5	2.2	2.3	1.5	1.9	2.0	1.9		2.6
1930	2.0	1.9	1.5	2.3	1.5	2.1	1.6			2.1	1.8	2.0	1.7	2.5
2100	1.8	1.9	1.8	2.3	1.8	2.4	1.5			1.9	1.7	1.9	2.0	2.2
2230	1.7	1.8	2.2	2.1	2.0	2.3	1.6	2.3		2.1		1.8	2.3	1.9
2400	1.6	1.8	2.3	1.8	1.8	2.0	2.0	1.9	1.5	2.1	1.7	1.8	2.5	1.9
DATE	4-21	4-22	4-23	4-24	4-25	4-26	4-27	4-28	4-29	4-30	5-1	5-2	5-3	5-4
TIME														
0130	2.0	2.4	2.0	2.2	2.1	2.0	2.1							
0300	2.2	2.3	1.9	2.6	2.0	2.1	2.1							
0430	2.3	2.1		2.4		2.2	2.0							
0600	2.3	2.0	1.9	2.0		2.2								
0730	2.4		2.0	1.9		2.0	2.0							
0900	2.3	2.0	2.1		2.0		2.1							
1030	2.2	1.9	2.2		2.1									
1200	2.1	2.0	2.1		2.2									
1330	2.1	2.0	2.1		2.3									
1500	2.0	2.1	2.0	1.9	2.2		2.1							
1630		2.2	2.0	2.1	2.0		2.0							
1800	2.0	2.3	1.9	1.9		2.0								
1930	2.1	2.1		1.9		2.1								
2100	2.2	2.0		2.1										
2230	2.3	1.9												
2400	2.4	1.9	1.9	2.1	2.0	2.1								

Record is torn
off at 1730

LAKE MICHIGAN - STATION 39. Depth 180 m.

Start 2 December 1962, 1650 CST; end 19 July 1963, 1000 CST.

Instrument serial no. 129, film record 20,189. No temperature correction.

DATE	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15
TIME														
0130		3.8	3.7	3.7	3.6	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
0300		3.8												
0430		3.7												
0600						3.3				3.2				
0730					3.6	3.2				3.1				
0900					3.5				3.2		3.2			
1030					3.4				3.1					
1200					3.3									
1330					3.2									
1500					3.3				3.1					
1630									3.2					
1800	3.9													
1930	3.8			3.7										
2100				3.6										3.2
2230	3.8													3.3
2400	3.7	3.7	3.7	3.6	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3

DATE	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29
TIME														
0130	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.3	4.0	3.9	3.6	3.7	3.6	3.3
0300	3.2													3.3
0430														3.2
0600			3.2									3.7	3.6	
0730			3.3	3.2		3.2			4.0			3.6	3.5	3.2
0900	3.2		3.4	3.1		3.1		3.3	3.9		3.6			3.1
1030	3.3			3.2	3.2			3.4		3.9	3.7			
1200	3.2	3.2	3.4		3.1			3.6		3.8				
1330		3.3	3.3		3.2			3.8		3.7				3.1
1500		3.2	3.3			3.1		3.9		3.6				3.2
1630			3.2			3.2	3.2	3.9						
1800							3.3	4.0					3.5	
1930													3.3	
2100														
2230									3.9					
2400	3.2	3.2	3.2	3.2	3.2	3.2	3.3	4.0	3.8	3.6	3.7	3.6	3.3	3.2

DATE	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12
TIME														
0130	3.2	3.2	3.3	3.4	3.4	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.4
0300														
0430														
0600					3.4							3.4		
0730			3.3		3.3	3.3						3.3		
0900	3.2		3.4			3.2								3.4
1030	3.1													3.3
1200		3.2				3.2								
1330		3.3				3.3								
1500														
1630														
1800	3.1				3.3									
1930	3.2				3.4				3.3			3.3		
2100									3.4			3.4		
2230														
2400	3.2	3.3	3.4	3.4	3.4	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.4	3.3

LAKE MICHIGAN, STATION 39, 180 m continued.

DATE	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26
TIME														
0130	3.3	3.4	3.4	3.4	3.3	3.4	3.3	3.3	3.3	3.2	3.2	3.1	3.1	3.1
0300									3.3			3.0		3.0
0430		3.4						3.3	3.2		3.2		3.1	
0600		3.3				3.4		3.2			3.1		3.0	
0730						3.3	3.3						3.1	3.0
0900			3.4		3.3		3.2		3.2	3.2		3.0		3.1
1030			3.3		3.4	3.3			3.1	3.1		3.1		
1200						3.2			3.2					
1330														
1500						3.2				3.1				
1630			3.3			3.3	3.2					3.1		
1800			3.4	3.4			3.3					3.0		
1930	3.3			3.3				3.2				3.0		
2100	3.4							3.3				3.1		3.1
2230														3.0
2400	3.4	3.3	3.4	3.3	3.4	3.3	3.3	3.3	3.2	3.2	3.1	3.1	3.1	3.0
DATE	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
TIME														
0130	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.1	3.0	3.0	3.0	3.0	3.0	3.0
0300						3.0		3.0						
0430						2.9								
0600				3.0	3.0	3.0								
0730				2.9	2.9									
0900				2.9										
1030				3.0	2.9									
1200					3.0									
1330														
1500														
1630														
1800														
1930						3.0								
2100						3.1	3.0							
2230							3.1							
2400	3.0	3.0	3.0	3.0	3.0	3.0	3.1	3.0	3.0	3.0	3.0	3.0	3.0	3.0
DATE	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23
TIME														
0130	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.9	2.9	3.0	2.9	2.9	3.0
0300														
0430				3.0										
0600				2.9										
0730											3.0			3.0
0900			3.0	2.9							2.9			2.9
1030			2.9	3.0										
1200														
1330			2.9											2.9
1500			3.0			3.0								3.0
1630						2.9				2.9				2.9
1800										3.0		2.9		
1930												3.0		
2100													2.9	
2230													3.0	
2400	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.9	2.9	3.0	2.9	3.0	3.0	2.9

LAKE MICHIGAN, STATION 39, 180 m continued.

DATE	2-24	2-25	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
TIME														
0130	2.9	2.9	2.9	2.9	3.0	2.9	3.0	3.0	2.9	2.9	2.9	2.9	2.9	2.9
0300							3.0	3.0						
0430					3.0		2.9	2.9						
0600					2.9									
0730														
0900														
1030														
1200											2.9			
1330											3.0			
1500							2.9				3.0			
1630							3.0				2.9			
1800					2.9				2.9					
1930				2.9	3.0				3.0					
2100				3.0		2.9			3.0					
2230						3.0			2.9					
2400	2.9	2.9	2.9	3.0	3.0	3.0	3.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9
DATE	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23
TIME														
0130	2.9	2.9	2.9	2.9	3.0	3.0	3.0	2.9	2.9	2.9	2.9	3.0	3.0	3.0
0300						3.0						3.0		3.0
0430				2.9		2.9	3.0					2.9		2.9
0600				3.0	3.0		2.9							
0730				2.9	2.9								3.0	
0900													2.9	
1030														
1200														
1330														
1500	2.9							2.9						
1630	3.0							3.0						
1800	2.9			2.9				2.9		2.9			2.9	
1930				3.0						3.0			3.0	
2100						2.9					2.9	2.9		
2230					2.9	3.0				3.0	3.0	3.0	3.0	
2400	2.9	2.9	2.9	3.0	3.0	2.9	2.9	2.9	2.9	2.9	3.0	3.0	3.0	2.9
DATE	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6
TIME														
0130	3.0	2.9	2.9	3.0	2.9	2.9	2.9	2.9	2.9	3.0	3.0	3.0	2.9	2.9
0300											3.0	3.0		2.9
0430											2.9	2.9		3.0
0600				3.0										
0730	3.0			2.9										
0900	2.9													
1030		2.9												
1200		3.0												
1330										3.0				
1500										2.9				
1630	2.9										2.9		2.9	
1800	3.0										3.0		3.0	
1930										3.0		3.0	3.0	
2100	3.0	3.0	2.9									2.9	2.9	
2230	2.9	2.9	3.0											
2400	2.9	2.9	3.0	2.9	2.9	2.9	2.9	2.9	2.9	3.0	3.0	2.9	2.9	3.0

LAKE MICHIGAN, STATION 39, 180 m continued.

DATE	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20
TIME														
0130	3.0	3.0	3.0	2.9	3.0	3.0	2.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0300						3.0	2.9		3.0		2.9	3.0	3.0	
0430						2.9	3.0		2.9			2.9	2.9	
0600	3.0				3.0				2.9				3.0	
0730	2.9		3.0		2.9				3.0					
0900	3.0		2.9	2.9				3.0		3.0				
1030				3.0				2.9		2.9				
1200						2.9		2.9		2.9				
1330						3.0		3.0		3.0				
1500			2.9									2.9		
1630			3.0		2.9						2.9	3.0		
1800					3.0						3.0			
1930														
2100														
2230			3.0											
2400	3.0	3.0	2.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
DATE	4-21	4-22	4-23	4-24	4-25	4-26	4-27	4-28	4-29	4-30	5-1	5-2	5-3	5-4
TIME														
0130	3.0	2.9	3.0	3.0	3.0	3.1	3.1	3.0	3.0	3.0	3.0	3.0		
0300						3.0	3.1							
0430							3.0							
0600	3.0													
0730	2.9													
0900	2.9													
1030	3.0			3.0										
1200				2.8		3.0								
1330		2.9		2.9		3.1								
1500		3.0		2.9		3.0								
1630	3.0	3.0		3.0										
1800	2.9	2.9			3.0									
1930	3.0	3.0			3.1									
2100														
2230														
2400	3.0	3.0	3.0	3.0	3.1	3.0	3.0	3.0	3.0	3.0	3.0	3.0	Record torn.	

LAKE MICHIGAN - STATION 39. Depth 210 m.

Start 2 December 1962, 1650 CST; end 19 July 1963, 1000 CST.

Instrument serial no. 109, film record 20,190. No temperature correction.

DATE TIME	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15
0130		3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.0	3.1	3.1	3.1	3.1
0300						3.0								
0430						3.0								
0600						3.1				3.0		3.1		
0730										3.1		3.0		
0900														
1030								3.1						
1200							3.1	3.0						
1330							3.0							
1500												3.0		
1630							3.0	3.0				3.1		
1800	3.2						3.1	3.1						
1930	3.1													
2100										3.1				
2230										3.0				
2400	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.0	3.1	3.1	3.1	3.1	3.1

DATE TIME	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29
0130	3.1	3.1	3.2	3.1	3.1	3.1	3.1	4.0	3.9	3.2	3.2	3.2	3.2	3.2
0300														
0430			3.2				3.1				3.2		3.2	
0600			3.1				3.3				3.1		3.1	3.2
0730							3.5	4.0	3.9					3.3
0900							3.6	3.8	3.6					3.2
1030		3.1		3.1			3.8		3.4					
1200		3.2		3.2			3.9	3.8	3.2					
1330		3.4			3.1			3.9						
1500		3.5		3.2	3.2						3.1			
1630				3.1							3.2		3.1	
1800		3.5			3.2								3.2	
1930		3.4			3.1									
2100		3.3												3.2
2230		3.2												3.3
2400	3.1	3.2	3.1	3.1	3.1	3.1	3.9	3.9	3.2	3.2	3.2	3.2	3.2	3.3

DATE TIME	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12
0130	3.3	3.3	3.5	3.4	3.3	3.3	3.3	3.2	3.3	3.4	3.4	3.4	3.4	3.4
0300														
0430				3.4						3.4				
0600		3.3		3.3						3.3				
0730		3.4					3.3							
0900							3.4							
1030														
1200							3.4	3.2		3.3				
1330							3.3	3.3	3.3	3.4				
1500		3.4							3.4					
1630		3.5												
1800			3.5											
1930			3.4											
2100														3.4
2230														3.3
2400	3.3	3.5	3.4	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.4	3.3

LAKE MICHIGAN, STATION 39, 210 m continued.

DATE	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26
TIME														
0130	3.3	3.3	3.4	3.3	3.2	3.1	3.1	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0300														
0430														
0600				3.3										
0730			3.4	3.2	3.2									
0900			3.3		3.1									
1030														
1200														
1330														
1500														
1630				3.2										3.0
1800		3.3		3.3										2.9
1930		3.4		3.3										
2100				3.2			3.1							
2230							3.0							
2400	3.3	3.4	3.3	3.2	3.1	3.1	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9
DATE	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
TIME														
0130	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
0300													3.0	
0430														
0600														2.9
0730														3.0
0900									2.9			2.9		
1030									3.0			3.0		
1200								2.9		2.9				
1330					2.9	2.9	2.9	3.0		3.0				
1500					3.0	3.0	3.0							
1630											2.9			
1800						3.0			3.0		3.0			
1930					3.0	2.9		3.0	2.9		3.0			3.0
2100					2.9		3.0	2.9			2.9			2.9
2230							2.9			3.0		3.0		
2400	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
DATE	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23
TIME														
0130	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
0300	3.0													
0430														
0600					2.9			2.9						
0730					3.0			3.0						
0900	3.0						2.9							
1030	2.9						3.0							
1200														
1330					3.0		3.0	3.0						
1500					2.9		2.9							
1630														
1800														
1930														
2100														
2230														
2400	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9

LAKE MICHIGAN, STATION 39, 210 m continued.

DATE	2-24	2-25	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
TIME														
0130	2.9	2.9	3.0	3.0	3.0	3.0	3.0	2.9	3.0	3.0	3.0	3.0	2.9	2.9
0300								3.0						
0430														
0600		2.9								3.0				
0730		3.0					3.0	3.0	3.0	2.9				
0900						3.0	2.9	2.9	2.9	3.0				
1030					3.0	2.9			2.9					
1200			3.0	3.0	2.9				3.0					
1330		3.0	2.9	2.9				2.9						
1500		2.9			2.9	2.9	2.9	3.0						
1630				2.9	3.0	3.0	3.0							
1800			2.9	3.0								3.0		
1930		2.9	3.0									2.9		
2100		3.0					3.0							
2230							2.9							
2400	2.9	3.0	3.0	3.0	3.0	3.0	2.9	3.0	3.0	3.0	3.0	2.9	2.9	2.9
DATE	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23
TIME														
0130	2.9	3.0	3.0	3.0	3.0	3.0	2.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0300						2.9								
0430						2.9								
0600						3.0								
0730	2.9													3.0
0900	3.0													2.9
1030														
1200						3.0	2.9							
1330						2.9	3.0	3.0						
1500						3.0		2.9						
1630							3.0							
1800							2.9	2.9						
1930								3.0						
2100						3.0								
2230						2.9								
2400	3.0	3.0	3.0	3.0	3.0	2.9	2.9	3.0	3.0	3.0	3.0	3.0	3.0	2.9
DATE	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6
TIME														
0130	2.9	2.9	2.9	2.8	2.8	2.9	2.8	2.8	2.9	3.0	3.0	2.9	2.9	3.0
0300			2.8	2.7										
0430				2.8								2.9		
0600		2.9			2.8	2.9						3.0		
0730		2.8			2.9	2.8				3.0			2.9	
0900					2.8					2.9			3.0	
1030				2.8				2.8						
1200	2.9	2.8	2.8	2.9				2.9		2.9				
1330	2.8	2.9	2.9				2.8			3.0				
1500							2.9		2.9					
1630				2.9					3.0					
1800	2.8		2.9	2.8		2.8	2.9				3.0	2.9		3.0
1930	2.9		2.8			2.9	2.8				2.9			2.9
2100														
2230						2.9								
2400	2.9	2.9	2.8	2.8	2.8	2.8	2.8	2.9	3.0	3.0	2.9	2.9	3.0	2.9

LAKE MICHIGAN, STATION 39, 210 m continued.

DATE	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20
TIME														
0130	2.9	2.9	3.0	2.9	3.0	3.0	3.0	2.9	3.0	3.0	3.0	3.0	3.0	3.0
0300		3.0												
0430				2.9			3.0							
0600	2.9			3.0			2.9	2.9						
0730	3.0	3.0						3.0						
0900		2.9				3.0	2.9							
1030					3.0	2.9	3.0				3.0			
1200					2.9						2.9			
1330		2.9	3.0											
1500	3.0	3.0	2.9									3.0		
1630	2.9				2.9		3.0				2.9	2.9		
1800					3.0		2.9				3.0			
1930								3.0		3.0				
2100		3.0				2.9		2.9		2.9		2.9		
2230		2.9				3.0						3.0		
2400	2.9	2.9	2.9	3.0	3.0	2.9	2.9	2.9	3.0	2.9	3.0	3.0	3.0	3.0
DATE	4-21	4-22	4-23	4-24	4-25	4-26	4-27	4-28	4-29	4-30	5-1	5-2	5-3	5-4
TIME														
0130	3.0	3.0	3.0	2.9	3.0	3.0	3.0	3.0	3.0	3.0				
0300	3.0							3.1						
0430	3.1			2.9							3.0			
0600	3.1			3.0				3.1		2.9				
0730	3.0							3.0						
0900														
1030			3.0				3.0			2.9				
1200			2.9				3.1			3.0				
1330										2.9				
1500			2.9				3.1	3.0						
1630			3.0				3.0	3.1		2.9				
1800								3.0						
1930				3.0							Data ends.			
2100				2.9										
2230			3.0											
2400	3.0	3.0	2.9	2.9	3.0	3.0	3.0	3.0	3.0					

LAKE MICHIGAN - STATION 39. Depth 240 m.

Start 2 December 1962, 1650 CST; end 19 July 1963, 1000 CST.

Instrument serial no. 124, film record 20,191. No temperature correction.

DATE	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15
TIME														
0130		6.0	6.0	6.0	6.0	5.9	6.0	6.0	6.0	6.0	6.1	6.1	6.2	6.3
0300						5.9					6.2		6.0	6.2
0430						6.0								
0600													6.0	6.2
0730													6.1	6.3
0900														6.3
1030														6.2
1200														6.1
1330														
1500											6.2			
1630											6.1			
1800	6.0										6.0			
1930														6.1
2100					6.0	6.0								6.0
2230					5.9	5.9								
2400	6.0	6.0	6.0	6.0	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.2	6.3	6.0

DATE	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29
TIME														
0130	6.0	6.5	7.0	7.0	6.1	6.2	6.1	6.3	6.3	6.7	6.4	6.5	6.5	6.3
0300		6.8		6.9		6.2		6.4	6.7	6.6	6.5			6.4
0430		6.9		6.8		6.3	6.1	6.3	6.4				6.5	6.5
0600			7.0	6.9		6.2	6.3	6.3	6.3	6.6			6.4	
0730			6.9	6.9			6.3	6.2	6.5	6.5			6.4	
0900	6.0		6.7	6.7			6.5	6.2	6.6	6.4			6.5	
1030	6.1		6.8	6.7			6.1	6.3	6.4	6.5				
1200				6.4				6.6	6.2					
1330	6.1			6.1	6.1	6.2	6.1	6.3	6.3					6.5
1500	6.0		6.8		6.2	6.1	6.2	6.3	6.5					6.4
1630	6.0	6.9	6.9					6.4	6.7					
1800	6.1	7.0			6.2		6.2	6.5	6.6		6.5			6.4
1930					6.3		6.0				6.4			6.5
2100		7.0	6.9		6.2			6.5					6.5	
2230	6.1	7.1	6.8		6.3			6.1	6.6	6.5			6.3	6.5
2400	6.3	7.1	7.0	6.1	6.3	6.1	6.0	6.3	6.7	6.4	6.5	6.4	6.3	6.4

DATE	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12
TIME														
0130	6.5	6.4	6.3	6.3	6.3	6.5	6.5	6.4	6.3	6.2	6.2	6.1	6.0	6.0
0300	6.5		6.3					6.5						
0430	6.4		6.4	6.3										
0600	6.4		6.3	6.4				6.5		6.2				
0730	6.5			6.3				6.4		6.1	6.2			
0900										6.2	6.1			
1030	6.5								6.3					
1200	6.4								6.2					
1330														
1500		6.4								6.2				
1630		6.3		6.3				6.4		6.3				
1800				6.4	6.3			6.3		6.2		6.1		
1930					6.4							6.0		
2100					6.4									
2230					6.5									
2400	6.4	6.3	6.3	6.4	6.5	6.5	6.5	6.3	6.2	6.2	6.1	6.0	6.0	6.0

LAKE MICHIGAN, STATION 39, 240 m continued.

DATE	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26
TIME														
0130	6.0	5.9	5.7	5.7	5.8	5.8	5.9	5.7	5.7	5.7	5.6	5.6	5.7	5.8
0300				5.8		5.8	5.8		5.7			5.7		
0430				5.7		5.9	5.8	5.7	5.8					
0600							5.7	5.8					5.7	
0730							5.8						5.6	
0900			5.7										5.6	
1030			5.8			5.9	5.8	5.8			5.6		5.7	
1200						5.8	5.7	5.7			5.7		5.8	5.8
1330	6.0								5.8					5.7
1500	5.9						5.7		5.7					
1630	6.0					5.8	5.8		5.6					
1800	5.9	5.9		5.7		5.9	5.8		5.5		5.7	5.7	5.8	
1930		5.8		5.8			5.7			5.7	5.6	5.6	5.7	
2100									5.5	5.6		5.6		
2230		5.8							5.6			5.7	5.7	
2400	5.9	5.7	5.8	5.8	5.8	5.9	5.7	5.7	5.7	5.6	5.6	5.7	5.8	5.7
DATE	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
TIME														
0130	5.7	5.7	5.7	5.7	5.8	5.8	5.7	5.8	5.7	5.7	5.7	5.8	5.8	5.8
0300	5.8						5.8		5.7	5.8				
0430	5.7			5.7	5.8			5.7						
0600				5.8	5.7		5.8	5.8						
0730				5.8			5.9							
0900		5.7		5.7										
1030		5.8								5.7	5.7			
1200		5.7			5.7					5.8	5.8			
1330					5.8									
1500														
1630							5.9							
1800							5.8							
1930								5.8		5.8				
2100						5.8		5.7	5.8	5.7				
2230						5.7			5.7					
2400	5.7	5.7	5.7	5.7	5.8	5.7	5.8	5.7	5.7	5.7	5.8	5.8	5.8	5.8
DATE	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23
TIME														
0130	5.8	5.7	5.7	5.7	5.7	5.8	5.8	5.8	5.7	5.8	5.7	5.8	5.8	5.8
0300		5.7	5.8		5.8		5.8	5.8	5.8		5.8			
0430		5.8					5.7	5.7			5.8	5.8		
0600			5.8		5.8				5.8	5.7	5.7			
0730			5.7		5.7				5.7	5.8	5.8			
0900	5.8	5.8				5.8								
1030	5.7	5.7				5.7								
1200						5.7				5.8				
1330						5.8			5.6	5.7				
1500									5.6	5.8		5.8		
1630							5.7	5.7				5.7		
1800							5.8		5.8			5.8		
1930														
2100														
2230														
2400	5.7	5.7	5.7	5.7	5.7	5.8	5.8	5.7	5.8	5.8	5.8	5.8	5.8	5.8

LAKE MICHIGAN, STATION 39, 240 m continued.

DATE	2-24	2-25	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
TIME														
0130	5.8	5.8	5.7	5.7	5.7	5.8	5.8	5.7	5.7	5.7	5.6	5.7	5.6	5.7
0300					5.8						5.7		5.7	
0430				5.7										
0600			5.7	5.8										
0730			5.8											
0900			5.7							5.7				
1030		5.8		5.8						5.6	5.7			
1200		5.7		5.7						5.6	5.6			
1330										5.7	5.7			
1500	5.8													
1630	5.7													
1800												5.7		5.7
1930												5.6		5.6
2100										5.6		5.7		
2230												5.7		
2400	5.7	5.7	5.7	5.7	5.8	5.8	5.8	5.7	5.7	5.6	5.7	5.6	5.7	5.6
DATE	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23
TIME														
0130	5.6	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.6	5.7	5.7
0300	5.7													
0430														
0600														
0730			5.7									5.6		
0900			5.6									5.7		
1030														
1200														
1330														
1500														
1630														
1800														
1930			5.6											
2100		5.7	5.7											
2230		5.6									5.7			
2400	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.6	5.7	5.7	5.7
DATE	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6
TIME														
0130	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
0300													5.7	
0430				5.8									5.7	
0600				5.7									5.8	
0730														
0900	5.8			5.7	5.8									
1030	5.7			5.8	5.7									
1200			5.8		5.8									
1330			5.7											
1500			5.7											
1630			5.8											
1800	5.7													
1930	5.8													
2100								5.8						
2230								5.7						
2400	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8

LAKE MICHIGAN, STATION 39, 240 m continued.

DATE	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20
TIME														
0130	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
0300														
0430												5.8		
0600												5.9		
0730												5.9		
0900								5.8				5.8		
1030								5.9						
1200								5.9						
1330								5.8						
1500														
1630														
1800										5.8				
1930										5.7				
2100										5.7				
2230										5.8				
2400	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
DATE	4-21	4-22	4-23	4-24	4-25	4-26	4-27	4-28	4-29	4-30	5-1	5-2	5-3	5-4
TIME														
0130	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.9	5.9	5.8	5.7
0300		5.8												
0430		5.7			5.8									
0600		5.8			5.7									
0730					5.8									
0900					5.7									
1030								5.8						
1200								5.7						
1330														
1500					5.7			5.7				5.9		
1630					5.8			5.8				5.8		
1800										5.8				
1930				5.8						5.9			5.8	
2100		5.8		5.9									5.7	
2230		5.7		5.9										
2400	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.9	5.9	5.8	5.7	5.7
DATE	5-5	5-6	5-7	5-8	5-9	5-10	5-11	5-12	5-13	5-14	5-15	5-16	5-17	5-18
TIME														
0130	5.7	5.9	5.8											
0300			5.7											
0430	5.7		5.4											
0600	5.8		5.6											
0730		5.9	5.8											
0900		5.6	5.8											
1030														
1200		5.6	Data ends.											
1330		5.9	Film torn.											
1500														
1630														
1800	5.8	5.9												
1930	5.9	5.8												
2100														
2230														
2400	5.9	5.8												

LAKE MICHIGAN - STATION 3. Depth 10 m.

Start 17 November 1963, 1000 CST; end 23 March 1964, 1400 CST.

Instrument serial no. 366, film record 20,005. Initial cal. 0°C; final cal. -0.3°.

DATE	11-17	11-18	11-19	11-20	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28	11-29	11-30
TIME														
0130		11.0	10.9	11.3	11.0	10.3	10.6	10.2	9.9	10.0	9.8	9.4	9.0	8.6
0300		11.0	10.8		10.9								8.9	8.6
0430		10.9			10.8		10.6			10.0	9.8		8.9	8.5
0600		10.8	10.8				10.5			9.9	9.9		8.8	8.4
0730		10.6	10.7				10.4	10.2			9.8			
0900		10.3	10.6			10.3	10.3	10.1	9.9		9.8	9.4	8.8	
1030		10.6			10.8	10.4	10.2	10.0	10.0		9.4	9.3	8.7	
1200	11.2	10.9	10.6		10.7		10.2	9.8	10.1	9.9	9.3			
1330	11.2		10.7		10.8		10.3	9.6		9.8				8.4
1500	11.3		10.8		10.9		10.9	9.5		9.8	9.3	9.3		8.3
1630			10.8			10.5	10.3	9.5		9.7	9.4	9.2		
1800			10.9		10.9			9.6		9.8		9.1		8.3
1930			11.0	11.3	10.5			9.7			9.4			8.2
2100			11.1	11.2	10.4			9.8			9.5	9.1	8.7	8.1
2230	11.3		11.2	11.2	10.3			9.8	10.1		9.5	9.0	8.6	7.9
2400	11.1	10.9	11.3	11.1	10.3	10.5	10.3	9.9	10.0	9.8	9.4	9.0	8.6	7.6

DATE	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14
TIME														
0130	7.5	7.7	8.3	7.9	7.7	7.3	7.7	7.3	6.5	6.3	6.1	5.3	5.5	4.9
0300	7.6	7.8	8.2		7.7	7.3	7.8				6.0		5.4	
0430	7.7	7.9			7.6	7.0	7.7	7.3			6.0		5.3	
0600	7.8	8.0			7.3	6.9		7.2			5.9	5.3		
0730	8.0	8.1		7.9	7.2	6.7		6.8			5.9	5.2	5.3	
0900	8.1			7.8	7.2	7.0	7.7	6.2			5.8		5.2	
1030	8.3			7.7	7.0	7.3	7.5	6.3			5.8		4.9	4.9
1200	8.3	8.1		7.7	6.7	7.4	7.4	6.4	6.5		5.7	5.2	4.8	4.7
1330	8.4	8.3		7.8	6.6	7.5		6.6	6.4		5.6	5.3		4.6
1500	8.4	8.1			6.6	7.6	7.4	6.5			5.5	5.3		4.5
1630	8.3				6.7		6.8		6.4		5.4	5.4		
1800	8.3			7.8	6.9		6.4		6.3		5.4			4.5
1930	8.2	8.1	8.2	7.9	7.1	7.6	6.8			6.2	5.3	5.4		4.4
2100	8.0	8.3	8.1	7.7	7.2	7.7	7.3			6.1		5.5		
2230	7.7		8.0		7.3		7.4						4.8	
2400	7.6	8.3	8.0	7.7	7.3	7.7	7.4	6.5	6.3	6.1	5.3	5.5	4.9	4.4

DATE	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28
TIME														
0130	4.4	4.4	3.4	3.0	3.1	2.8	2.6	2.1	1.2	0.8	1.3	1.1	1.0	0.6
0300	4.5		3.7	2.9	3.0	2.8		2.0	1.1	0.9	1.3		0.9	
0430	4.6		3.6		2.9	2.7		1.9	1.0	1.0	1.2	1.1	0.8	0.6
0600			3.4		2.7			1.8	1.0	1.1		1.2		0.5
0730			3.3		2.5			1.8	0.9	1.2	1.2	1.2		0.4
0900		4.4			2.3			1.7	0.9	1.1	1.1	1.3		0.3
1030		4.3						1.6	0.8		1.2			
1200		4.3		2.9			2.6	1.5			1.3	1.3		
1330		4.0		3.0		2.7	2.5	1.4	0.8		1.4	1.2		
1500		4.6	3.9	3.1		2.6	2.4	1.4	0.7		1.5	1.1		0.3
1630		4.5	4.3	3.2	2.3			1.3						0.2
1800		4.4			2.4		2.4			1.1			0.8	0.5
1930		4.3	3.2		2.5		2.3	1.3		1.2			0.7	
2100		4.1	2.1		2.6		2.3	1.2		1.2	1.5			
2230			3.9	3.0	2.7		2.2			1.3	1.3	1.1		
2400	4.4	3.5	3.0	3.2	2.8	2.6	2.2	1.2	0.7	1.3	1.2	1.0	0.7	0.5

LAKE MICHIGAN, STATION 3, 10 m continued.

DATE	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
TIME														
0130	0.5	0.4	0.4	0.6	0.4	1.0	0.8	0.8	0.8	0.4	0.7	0.4	0.5	0.0
0300					0.5	1.0						0.4	0.5	
0430				0.6	0.5	1.1						0.5	0.4	
0600				0.5	0.6						0.7			
0730						1.1					0.6	0.5		
0900			0.4		0.6	1.0					0.5	0.6	0.4	
1030			0.5		0.7	0.9					0.5		0.3	
1200				0.5					0.8		0.4	0.6		
1330	0.5		0.5	0.4		0.9			0.7			0.7		0.0
1500	0.6		0.6			0.8		0.8		0.4			0.3	0.1
1630	0.6				0.7		0.8	0.7	0.7	0.5			0.2	0.2
1800	0.5				0.8		0.7		0.6	0.5		0.7		
1930	0.4						0.8		0.5	0.6		0.6	0.2	
2100	0.4				0.8				0.5	0.7			0.1	0.2
2230	0.3	0.4			0.9			0.7	0.4			0.6	0.1	0.1
2400	0.3	0.6	0.6	0.4	1.0	0.8	0.8	0.8	0.4	0.7	0.4	0.5	0.0	0.1
DATE	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25
TIME														
0130	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.1
0300														
0430														
0600	0.1													
0730	0.2			0.1										
0900	0.1			0.2										0.1
1030				0.1										0.0
1200													0.2	
1330													0.1	
1500					0.1								0.1	
1630					0.0		0.0						0.2	0.0
1800							0.1					0.1	0.2	0.2
1930														0.3
2100														
2230													0.2	
2400	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.3
DATE	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8
TIME														
0130	0.3	0.3	0.3	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.3
0300				0.1									0.3	
0430				0.0										
0600														
0730										0.2				
0900										0.1				
1030														
1200			0.3		0.0							0.1		
1330			0.2		0.1							0.2		
1500			0.2											
1630			0.1						0.1					
1800								0.2						
1930							0.1							
2100							0.2							
2230							0.1							
2400	0.3	0.3	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.3	0.3

LAKE MICHIGAN, STATION 3, 10 m continued.

DATE	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22
TIME														
0130	0.3	0.2	0.2	0.1	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1
0300												0.1	0.1	
0430						0.1						0.2	0.2	
0600				0.1		0.2		0.1						
0730				0.0				0.2						
0900														
1030	0.3													
1200	0.2													
1330														
1500		0.2	0.2			0.2			0.2			0.2		
1630		0.1	0.1			0.1			0.1			0.1		
1800					0.0								0.2	
1930		0.1			0.1								0.1	0.1
2100		0.2												0.0
2230														0.0
2400	0.2	0.2	0.1	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1
DATE	2-23	2-24	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7
TIME														
0130	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.5	0.6
0300														
0430														
0600								0.1						
0730		0.1						0.2						
0900		0.0											0.5	
1030												0.3	0.6	0.6
1200									0.3			0.4		0.5
1330		0.0										0.5		
1500		0.1	0.1											
1630			0.0											
1800									0.3					
1930									0.2					
2100						0.1			0.3					
2230			0.0			0.0								
2400	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.5	0.6	0.5
DATE	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21
TIME														
0130	0.5	0.5	0.6	0.8	0.8	0.9	1.3	1.3	1.4	1.5	1.6	1.4	1.4	1.5
0300											1.5			1.4
0430														
0600					0.8			1.3						
0730					0.9	0.9		1.4				1.4		
0900		0.5				1.0		1.3				1.5		
1030		0.5				1.1		1.3	1.4		1.5	1.4		
1200					0.9			1.4	1.5	1.5	1.6			
1330					1.0					1.6	1.5	1.4		
1500		0.5				1.1				1.7		1.5		
1630		0.6				1.2			1.5			1.4		
1800			0.6						1.6	1.7			1.4	
1930			0.7						1.5	1.8			1.5	
2100			0.7			1.2				1.7				
2230			0.8			1.3				1.7	1.5			
2400	0.5	0.6	0.8	0.8	1.0	1.3	1.3	1.4	1.5	1.6	1.4	1.4	1.5	1.4

LAKE MICHIGAN, STATION 3, 10 m continued.

DATE	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4
TIME														
0130	1.4	1.5												
0300														
0430	1.4													
0600	1.3													
0730	1.3													
0900	1.4													
1030														
1200		1.5												
1330														
1500		End.												
1630														
1800	1.4													
1930	1.5													
2100														
2230														
2400	1.5													

LAKE MICHIGAN - STATION 3. Depth 15 m.

Start 17 November 1963, 1000 CST; end 23 March 1964, 1400 CST.

Instrument serial no. 343, film record 20,006. Initial cal. none; final cal. -0.4°C.

DATE	11-17	11-18	11-19	11-20	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28	11-29	11-30
TIME														
0130		11.3	11.2	11.0	11.0	11.4	10.8	10.4	10.4	10.2	9.9	9.9	10.0	9.6
0300				10.9					10.3	10.2	9.9			
0430		11.3		10.8	11.0			10.4	10.1	10.1	9.9		10.0	9.6
0600		11.2		10.7	10.9		10.8	10.5	10.1	9.8	10.0		9.7	9.5
0730		11.1		10.6	10.8		10.9	10.4	10.2	9.6	10.0		9.4	9.4
0900		11.0		10.7	10.8		11.0		10.3	9.5	9.9			
1030	11.2		11.2	10.8	10.9		11.1	10.4	10.4	9.5	10.1		9.4	9.4
1200		11.0	11.3	10.9	10.9			10.5		9.6	10.0		9.5	9.3
1330		11.1		11.0	11.0		11.1			9.7	9.9		9.5	9.2
1500		11.2		11.1	11.1		10.8			9.8	9.8		9.6	9.1
1630					11.2	11.4	10.6		10.4		9.7			
1800			11.3			11.2	10.4		10.3		9.7			
1930	11.2		11.2		11.2	11.1			10.2	9.8	9.8			
2100	11.3		11.1		11.3	11.0			10.1	9.9	9.9		9.6	
2230				11.1	11.4	10.8			10.2				9.5	
2400	11.3	11.2	11.1	11.0	11.4	10.8	10.4	10.5	10.2	9.9	9.9	9.9	9.6	9.1

LAKE MICHIGAN, STATION 3, 15 m continued.

DATE	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14
TIME														
0130	9.0	8.5	8.2	7.8	8.4	8.0	7.2	6.9	7.6	6.6	6.7	6.4	5.9	5.3
0300			8.4	7.8			6.8	7.2	6.7	6.8	6.6		5.8	5.4
0430	9.0		8.5	7.9		8.0		7.4	6.7				5.7	5.6
0600	8.9		8.7	8.2		8.1	6.8	7.5	6.6				5.6	5.9
0730			8.7	8.4			7.0	7.6	6.6			6.4	5.5	
0900			8.6	8.5			7.2	7.6	7.0			6.3		
1030		8.5	8.5				7.3	7.7	7.4			6.2	5.5	5.9
1200	8.9	8.4	8.5		8.4		7.4	7.7	7.6				5.4	5.7
1330	8.8	8.4	8.4		8.3		7.5	7.8	7.6					5.6
1500	8.7	8.3	8.1	8.5	8.3	8.1	7.4	7.9	7.5			6.1		5.5
1630	8.6	8.1	7.7	8.4	8.2	8.0		7.9					5.4	5.5
1800	8.5	7.9	7.8	8.4	8.1			7.8				6.1	5.3	5.4
1930		7.8		8.3		8.0	7.4	7.8	7.5	6.8	6.6	6.0		5.4
2100		7.8				7.8	7.2	7.6	6.8	6.7	6.5	6.0		5.2
2230		7.9				7.6	7.0		6.4			5.9		4.8
2400	8.5	8.1	7.8	8.3	8.1	7.4	6.8	7.6	6.4	6.7	6.5	5.9	5.3	4.7

DATE	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28
TIME														
0130	4.5	4.6	4.7	4.1	3.4	3.2	2.5	2.9	2.8	1.9	1.1	1.5	1.6	1.3
0300			4.6	4.3		3.3		2.9	2.6	1.7				
0430	4.5	4.6		4.2			2.5	2.8	2.6	1.6	1.1			
0600	4.6	4.4					2.6		2.5	1.5	1.2		1.6	
0730	4.7		4.6	4.2	3.4				2.4	1.5		1.5	1.7	
0900	4.7		4.5	4.0	3.3		2.6		2.3	1.4		1.6	1.5	
1030	4.8	4.4		3.6	3.2		2.8				1.2		1.4	
1200	4.9	4.5		3.6	3.1	3.3	2.9		2.3		1.3		1.3	1.3
1330	5.0	4.6		3.8		3.2			2.2			1.6	1.3	1.2
1500	5.1	4.6		3.8		3.2			2.1	1.4	1.3	1.5	1.4	
1630		4.7	4.5	3.6		3.5				1.3	1.4	1.4		
1800			4.4	3.5		2.9				1.2	1.4	1.3	1.4	
1930	5.1		4.4	3.4		2.7				1.1	1.5	1.3	1.5	
2100	5.1		4.3			2.5						1.4	1.5	
2230	4.8		4.3						2.1			1.6	1.4	
2400	4.8	4.7	4.1	3.4	3.1	2.5	2.9	2.8	2.0	1.1	1.5	1.6	1.3	1.2

DATE	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
TIME														
0130	1.2	0.8	0.9	0.7	1.2	1.3	1.2	1.2	1.2	1.2	0.9	0.8	0.6	0.8
0300			0.8	0.8							0.8		0.6	0.8
0430			0.8	0.8		1.3					0.8		0.5	0.7
0600		0.8	0.7	1.0		1.4				1.2	0.7			
0730		0.9	0.6	1.1		1.4	1.2			1.1	0.7			
0900				1.2		1.3	1.3				0.6	0.8		
1030	1.2			1.2		1.3						0.7	0.5	
1200	1.1			1.3		1.1							0.6	
1330	1.0			1.4		1.1							0.7	0.7
1500	0.9					1.2								0.6
1630	0.7				1.2							0.6	0.7	
1800	0.6				1.3		1.3			1.1			0.8	0.6
1930					1.2		1.2			1.0	0.6			0.5
2100				1.4							0.7			0.4
2230	0.6			1.3							0.7			
2400	0.7	0.9	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.0	0.8	0.6	0.8	0.4

LAKE MICHIGAN, STATION 3, 15 m continued.

DATE	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25
TIME														
0130	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3
0300	0.2	0.2						0.3						
0430								0.2						
0600													0.2	
0730	0.2												0.3	
0900	0.1	0.2												
1030	0.2	0.3												
1200		0.3				0.2								
1330		0.2				0.3								
1500														
1630														
1800	0.2					0.3	0.2							
1930	0.3					0.2	0.3							
2100	0.4													
2230														
2400	0.4	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3
DATE	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8
TIME														
0130	0.3	0.4	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.3	0.4	0.5
0300											0.3			
0430														
0600			0.5											
0730			0.6		0.4									
0900					0.5									
1030				0.5				0.3					0.4	
1200				0.4	0.5			0.2					0.5	
1330					0.4									
1500	0.3													
1630	0.4	0.4												
1800		0.5												
1930		0.4				0.4						0.3	0.5	
2100						0.3						0.4	0.6	
2230														
2400	0.4	0.4	0.6	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.3	0.4	0.6	0.5
DATE	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22
TIME														
0130	0.5	0.4	0.5	0.4	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.1
0300			0.5			0.3								
0430			0.4			0.2								0.1
0600		0.4												0.0
0730		0.5												
0900										0.3				
1030										0.4				
1200													0.3	
1330													0.2	
1500														
1630				0.4				0.2						
1800				0.3				0.3						
1930												0.4		
2100				0.3								0.3		
2230	0.5			0.4						0.3				
2400	0.4	0.5	0.4	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.0

LAKE MICHIGAN, STATION 3, 15 m continued.

DATE	2-23	2-24	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7
TIME														
0130	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.4	0.4	0.7	0.7
0300										0.2				
0430										0.3				
0600														0.7
0730														0.8
0900														
1030									0.1					
1200									0.2			0.4		
1330												0.5		
1500										0.3		0.6		
1630										0.4				
1800														0.8
1930														0.9
2100														
2230												0.6		
2400	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.4	0.4	0.7	0.7	0.9
DATE	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21
TIME														
0130	0.9	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.4	1.4	1.5	1.4	1.4	1.4
0300						1.3					1.4			
0430						1.2								
0600							1.4							
0730							1.3							
0900			1.1											
1030			1.2											
1200						1.2								
1330		1.0			1.2	1.3	1.3			1.4				
1500		1.1	1.2		1.3		1.4			1.5				
1630			1.3							1.6				
1800						1.3								1.4
1930	0.9					1.4								1.5
2100	1.0		1.3							1.6				
2230			1.2							1.5				
2400	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.4	1.4	1.5	1.4	1.4	1.4	1.5
DATE	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4
TIME														
0130	1.5	1.5												
0300	1.6	1.5												
0430		1.4												
0600		1.4												
0730		1.5												
0900		1.6												
1030														
1200														
1330		1.6												
1500														
1630		End of												
1800		record												
1930														
2100	1.6													
2230	1.5													
2400	1.5													

LAKE MICHIGAN - STATION 4. Depth 10 m.

Start 17 November 1963, 1300 CST; end 12 April 1964, 0905 CST.

Instrument serial no. 179, film record 20,016. Initial cal. 0°C; final cal. 0°C.

DATE	11-17	11-18	11-19	11-20	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28	11-29	11-30
TIME														
0130		11.4	11.4	11.3	11.3	11.3	11.2	10.9	10.7	10.8	10.6	10.3	10.0	9.1
0300							11.1	10.9			10.6	10.2		
0430			11.4				11.1	10.8		10.8	10.5			
0600			11.3				11.0			10.7				
0730								10.8					10.0	
0900								10.7	10.7		10.5		9.9	
1030								10.8	10.8		10.4		9.7	
1200													9.5	
1330	11.5												9.2	
1500	11.4												9.2	
1630												10.2	9.1	
1800												10.1		
1930						11.3				10.7				
2100						11.2				10.6				
2230							11.0							
2400	11.4	11.4	11.3	11.3	11.3	11.2	10.9	10.8	10.8	10.6	10.4	10.1	9.1	9.1
DATE	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14
TIME														
0130	9.1	8.8	8.7	8.9	8.7	8.2	8.3	8.2	8.1	7.9	7.5	7.4	6.9	6.3
0300				8.9	8.7				8.1			7.4		6.3
0430	9.1			8.8	8.8		8.3		8.0	7.9		7.3		6.2
0600	9.0	8.8	8.7				8.2			7.8		7.3		
0730		8.9	8.8							7.6		7.2	6.9	
0900	9.0					8.2		8.2		7.4			6.8	
1030	8.9					8.3		8.1		7.5		7.2		6.2
1200											7.5	7.1		6.1
1330			8.8								7.4			
1500			8.9		8.8							7.1		
1630					8.7							7.0		
1800					8.6								6.8	6.1
1930		8.9			8.4								6.7	6.0
2100	8.9	8.8			8.2				8.0				6.7	
2230	8.8			8.8					7.9			7.0	6.6	
2400	8.8	8.8	8.9	8.7	8.2	8.3	8.2	8.1	7.9	7.5	7.4	6.9	6.4	6.0
DATE	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28
TIME														
0130	6.0	5.7	5.6	5.5	5.3	4.9	4.5	4.6	4.4	4.0	4.0	4.0	4.0	4.0
0300		5.7	5.6		5.2	4.8	4.5							
0430		5.8	5.5		5.2		4.6		4.4	4.0				
0600		5.8			5.1			4.6	4.3	4.1				
0730		5.7		5.5				4.7						4.0
0900				5.4	5.1			4.6	4.3					3.9
1030					5.0			4.5	4.2					
1200				5.4		4.8								
1330	6.0			5.3		4.7		4.5		4.1				3.9
1500	5.9					4.7		4.4		4.0				3.8
1630						4.6								
1800						4.5								
1930									4.2					3.8
2100	5.9				5.0			4.4	4.0					3.7
2230	5.8				4.9			4.3						3.6
2400	5.7	5.7	5.5	5.3	4.9	4.5	4.6	4.3	4.0	4.0	4.0	4.0	4.0	3.6

LAKE MICHIGAN, STATION 4, 10 m continued.

DATE	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
TIME														
0130	3.6	3.4	3.3	3.1	2.4	2.6	2.6	2.6	2.7	2.6	2.5	2.5	2.5	2.6
0300	3.7										2.5			
0430					2.4						2.6			
0600		3.4		3.1	2.5							2.5		
0730		3.5		3.0	2.5				2.7			2.6	2.5	
0900	3.7				2.6				2.6				2.6	
1030	3.6		3.3											
1200			3.2	3.0										
1330			3.1	2.8				2.6						
1500				2.5				2.7						
1630				2.3										
1800	3.6			2.3										
1930	3.5			2.2										
2100		3.5		2.1								2.6		
2230	3.5	3.4		2.3						2.6	2.6	2.5		
2400	3.4	3.3	3.1	2.4	2.6	2.6	2.6	2.7	2.6	2.5	2.5	2.5	2.6	2.6
DATE	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25
TIME														
0130	2.6	1.9	1.1	1.3	1.1	1.3	0.9	0.9	1.0	1.2	1.2	1.2	1.2	1.2
0300	2.6	1.9		1.3	1.2	1.3		0.9						1.2
0430	2.5	1.8		1.4	1.2	1.2		1.0						1.3
0600	2.5	1.7	1.1	1.5	1.3	1.1			1.0					
0730	2.4	1.6	1.2			1.1				1.2				1.3
0900		1.5	1.3			0.9								1.4
1030	2.4	1.5		1.5										
1200	2.3	1.4		1.4		0.9								1.4
1330		1.3		1.4		0.8								1.5
1500		1.2		1.3		0.9								
1630		1.1												1.5
1800	2.3	1.3		1.3										1.4
1930	2.2			1.2										
2100	2.1	1.3												
2230	2.0	1.4		1.2				1.0						
2400	2.0	1.1	1.3	1.1	1.3	0.9	0.9	0.9	1.2	1.2	1.2	1.2	1.2	1.4
DATE	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8
TIME														
0130	1.4	1.9	1.8	1.3	1.4	1.6	1.6	1.4	1.2	1.2	1.2	1.4	1.2	1.5
0300	1.5		1.7	1.2	1.5	1.5					1.2		1.2	
0430	1.6			1.2							1.3		1.3	
0600			1.7	1.3		1.5							1.3	
0730			1.6			1.6		1.4		1.2			1.4	
0900			1.6					1.3		1.1			1.4	1.5
1030	1.6		1.5	1.3								1.4	1.5	1.4
1200	1.7			1.4								1.3		
1330	1.8		1.5						1.1					
1500			1.4						1.2		1.3			
1630	1.8			1.4							1.4			1.4
1800	1.9	1.9		1.3			1.6							1.5
1930		1.8					1.5	1.3				1.2		
2100					1.5		1.5	1.2						1.5
2230			1.4		1.6		1.4							1.4
2400	1.9	1.8	1.3	1.3	1.6	1.6	1.4	1.2	1.2	1.2	1.4	1.2	1.5	1.4

LAKE MICHIGAN, STATION 4, 10 m continued.

DATE	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22
TIME														
0130	1.4	1.0	1.0	1.3	1.4	1.4	1.4	1.4	1.3	1.2	1.4	1.5	1.5	1.3
0300			1.1	1.3	1.4						1.5	1.5		1.3
0430			1.2	1.4	1.3			1.4				1.6	1.5	1.4
0600	1.4							1.3					1.4	1.4
0730	1.3									1.2			1.4	1.5
0900	1.3									1.3			1.5	
1030	1.2		1.2									1.6		
1200			1.3		1.3							1.5		
1330			1.2		1.4	1.4								
1500						1.5					1.5			
1630	1.2										1.6			
1800	1.1													1.5
1930						1.5								1.4
2100						1.4							1.5	1.3
2230	1.1		1.2						1.3	1.3	1.6		1.4	
2400	1.0	1.0	1.3	1.4	1.4	1.4	1.4	1.3	1.2	1.4	1.5	1.5	1.3	1.3
DATE	2-23	2-24	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7
TIME														
0130	1.3	1.5	1.4	1.2	1.4	1.0	1.0	1.2	1.2	1.2	1.3	1.3	1.1	1.1
0300			1.4			0.9							1.2	
0430			1.3			0.8								
0600						0.8							1.2	
0730			1.3			0.7							1.1	
0900			1.2	1.2		0.8						1.3		
1030				1.3	1.4	0.9						1.2		
1200					1.3	1.0								
1330							1.0			1.2		1.2		
1500					1.3		1.1			1.3		1.1		
1630					1.2		1.2					1.1		
1800	1.3				1.1							1.2		
1930	1.4				1.0							1.1		
2100				1.3								1.0		
2230	1.4	1.5		1.4										
2400	1.5	1.4	1.2	1.4	1.0	1.0	1.2	1.2	1.2	1.3	1.3	1.0	1.1	1.1
DATE	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21
TIME														
0130	1.1	1.2	1.2	1.2	1.3	1.2	1.1	1.1	1.2	1.3	1.3	1.3	1.3	1.2
0300														
0430														
0600						1.2								
0730						1.1			1.2					
0900									1.3					
1030								1.1						
1200	1.1			1.2				1.2						
1330	1.2			1.3										
1500														
1630														
1800					1.3									
1930					1.2								1.3	
2100													1.2	
2230														
2400	1.2	1.2	1.2	1.3	1.2	1.1	1.1	1.2	1.3	1.3	1.3	1.3	1.2	1.2

LAKE MICHIGAN, STATION 4, 10 m continued.

DATE	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4
TIME														
0130	1.2	1.3	1.3	1.2	1.2	1.3	1.3	1.5	1.3	1.3	1.3	1.5	1.5	1.3
0300														1.3
0430											1.3			1.3
0600	1.2										1.4			1.2
0730	1.3													
0900							1.3			1.3				
1030							1.4			1.4				
1200					1.2									
1330					1.3									
1500											1.4			
1630											1.5			
1800			1.3				1.4	1.4		1.4				
1930			1.2				1.5			1.3				
2100								1.4					1.5	
2230								1.3					1.4	
2400	1.3	1.3	1.2	1.2	1.3	1.3	1.5	1.3	1.3	1.3	1.5	1.5	1.4	1.2
DATE	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18
TIME														
0130	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.5						
0300														
0430														
0600														
0730														
0900				1.2			1.3	1.5						
1030				1.3			1.4							
1200							1.5	Removed from						
1330								water at 0930						
1500														
1630														
1800														
1930														
2100														
2230														
2400	1.2	1.2	1.2	1.3	1.3	1.3	1.5							

LAKE MICHIGAN - STATION 4. Depth 15 m.

Start 17 November 1963, 1300 CST; end 12 April 1964, 0905 CST.

Instrument serial no. 361, film record 20,017. Initial cal. 0°C; final cal. 0°C.

DATE	11-17	11-18	11-19	11-20	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28	11-29	11-30
TIME														
0130		11.1	11.0	11.0	11.0	11.0	10.9	10.5	10.2	10.1	10.0	10.0	9.8	8.9
0300								10.4	10.1			10.0	9.7	
0430								10.3				9.9	9.7	
0600		11.1					10.9	10.2					9.6	
0730		11.0					10.8	10.1					9.6	
0900													9.4	
1030													9.2	
1200													9.0	
1330	11.3						10.7						8.9	
1500	11.1													
1630						11.0						9.9		
1800						10.9		10.1		10.1		9.8		
1930								10.2		10.0				
2100														
2230							10.7							
2400	11.1	11.0	11.0	11.0	11.0	10.9	10.6	10.2	10.1	10.0	10.0	9.8	8.9	8.9
DATE	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14
TIME														
0130	8.9	8.4	8.3	8.3	8.2	7.9	8.0	7.9	7.7	7.4	7.0	6.9	6.1	6.0
0300			8.3		8.1			7.9	7.7	7.3				
0430	8.9		8.2	8.3				7.8	7.6	7.2				6.0
0600	8.8			8.2	8.1					7.1		6.9		5.9
0730	8.8				8.2		8.0			7.0		6.8		
0900	8.7						7.9					6.7		
1030	8.6								7.6			6.6		
1200	8.5								7.5			6.5	6.1	
1330	8.4											6.4	6.0	
1500					8.2	7.9						6.4		
1630				8.2	8.0	8.0						6.3		
1800				8.3	8.0							6.3		5.9
1930		8.4			7.9			7.8			7.0	6.2		5.8
2100		8.3						7.7			6.9	6.1		
2230									7.4					
2400	8.4	8.3	8.3	8.2	7.9	8.0	7.9	7.7	7.4	7.0	6.9	6.1	6.0	5.8
DATE	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28
TIME														
0130	5.8	5.5	5.4	5.1	5.0	4.2	4.1	4.0	3.9	3.5	3.5	3.5	3.5	3.4
0300			5.4		4.9									
0430			5.3		4.8									
0600										3.5				
0730							4.1		3.9	3.4				3.4
0900					4.8		4.0		3.8					3.3
1030					4.7									
1200	5.8			5.1	4.6						3.4			
1330	5.7			5.0		4.2					3.5			
1500			5.3			4.1								3.3
1630			5.2											3.2
1800														3.1
1930					4.6				3.8					
2100	5.7	5.5			4.4			4.0	3.6					
2230	5.6	5.4	5.2		4.3			3.9	3.6					
2400	5.6	5.4	5.1	5.0	4.2	4.1	4.0	3.9	3.5	3.5	3.5	3.5	3.5	3.1

LAKE MICHIGAN, STATION 4, 15 m continued.

DATE	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
TIME														
0130	3.1	3.0	3.0	2.9	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.6
0300														
0430														
0600														
0730														2.6
0900					2.4									2.5
1030					2.5									
1200			3.0	2.9										
1330	3.1		2.9											
1500	3.0													
1630														
1800												2.5		
1930												2.6		
2100														2.5
2230														2.4
2400	3.0	3.0	2.9	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.6	2.4
DATE	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25
TIME														
0130	2.4	1.8	1.0	1.1	1.1	1.1	0.8	0.8	0.9	1.1	1.0	1.1	1.1	1.1
0300	2.4	1.7		1.2		1.1	0.8							
0430	2.3	1.6				1.0	0.6		0.9					1.1
0600		1.5				1.0	0.7		1.0					1.2
0730	2.3	1.3				0.9					1.0			
0900	2.2	1.2				1.0	0.7				1.1			
1030		1.2				0.9	0.8		1.0					1.2
1200	2.2	1.1				0.8		0.9	1.1					1.3
1330	2.1	1.0				0.7								
1500		0.9				0.8								
1630		1.0		1.2						1.1				
1800	2.1	1.1		1.1						1.0				
1930	2.0	1.1	1.0											
2100		1.2	1.1			0.8								
2230	2.0	1.1				0.7								1.3
2400	1.9	1.0	1.1	1.1	1.1	0.8	0.8	0.9	1.1	1.0	1.1	1.1	1.1	1.4
DATE	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8
TIME														
0130	1.4	1.9	1.9	1.1	1.1	1.2	1.3	1.3	1.1	1.1	1.0	1.1	1.1	1.4
0300			1.8											1.4
0430			1.8	1.1										1.3
0600			1.7	1.0				1.3		1.1			1.1	1.2
0730			1.6	1.0				1.2		1.0			1.2	1.2
0900			1.5	1.1			1.3						1.2	1.1
1030	1.4		1.4				1.4						1.3	
1200	1.5		1.4					1.2						
1330	1.6		1.3			1.2		1.1						
1500	1.7		1.2			1.3								1.1
1630	1.8		1.1											1.2
1800	1.8								1.1		1.1		1.3	
1930	1.9								1.0				1.4	
2100					1.1		1.4							
2230					1.2		1.3						1.4	
2400	1.9	1.9	1.1	1.1	1.2	1.3	1.3	1.1	1.0	1.0	1.1	1.1	1.3	1.2

LAKE MICHIGAN, STATION 4, 15 m continued.

DATE	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22
TIME														
0130	1.3	1.0	1.0	1.1	1.2	1.2	1.4	1.3	1.3	1.1	1.1	1.1	1.2	1.3
0300		1.0		1.2										
0430	1.3	0.9							1.3					
0600	1.2					1.2			1.2			1.1		1.3
0730	1.1					1.3						1.2		1.2
0900	1.0													
1030		0.9											1.2	
1200		1.0											1.3	
1330		1.0				1.3	1.4							
1500		0.9				1.4	1.3							
1630														1.2
1800														1.1
1930		0.9												
2100		1.0	1.0						1.2					
2230		0.9	1.1						1.1					
2400	1.0	0.9	1.1	1.2	1.2	1.4	1.3	1.3	1.1	1.1	1.1	1.2	1.3	1.1
DATE	2-23	2-24	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7
TIME														
0130	1.1	1.2	1.1	1.0	1.1	0.7	0.9	1.1	1.1	1.1	1.2	1.2	1.0	1.1
0300						0.6							1.1	
0430						0.6	0.9							
0600			1.1			0.7	1.0							
0730			1.0			0.7				1.1		1.2	1.1	
0900						0.8				1.2		1.1	1.0	
1030												1.1		
1200					1.1							1.0		
1330				1.0	1.0									
1500				1.1	1.0								1.0	
1630					0.9		1.0						1.1	
1800		1.2			0.9		1.1							
1930		1.1			0.8	0.8								1.1
2100	1.1				0.9									1.2
2230	1.2				0.8									
2400	1.2	1.1	1.0	1.1	0.7	0.9	1.1	1.1	1.1	1.2	1.2	1.0	1.1	1.2
DATE	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21
TIME														
0130	1.1	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.0	1.1	1.1	1.1
0300														
0430		1.2												
0600		1.1												
0730									1.1					
0900			1.1						1.0					
1030			1.0											
1200											1.0			
1330											1.1			
1500	1.1													
1630	1.2													
1800							1.0	1.0		1.1				
1930							1.1			1.0				
2100									1.1					
2230														
2400	1.2	1.1	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.0	1.1	1.1	1.1	1.1

LAKE MICHIGAN, STATION 4, 15 m continued.

DATE	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4
TIME														
0130	1.1	1.1	1.2	1.1	1.1	1.1	1.2	1.2	1.3	1.2	1.4	1.4	1.3	1.1
0300										1.2				
0430										1.3				
0600														
0730						1.1			1.3					
0900						1.2			1.2					
1030														
1200														
1330												1.4		
1500												1.3		
1630			1.2											
1800			1.1					1.2						1.1
1930		1.1						1.3		1.3			1.3	1.0
2100		1.2								1.4			1.2	
2230														
2400	1.1	1.2	1.1	1.1	1.1	1.2	1.2	1.3	1.2	1.4	1.4	1.3	1.2	1.0
DATE	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18
TIME														
0130	1.1	1.1	1.1	1.1	1.2	1.3	1.3							
0300							1.3							
0430							1.4							
0600						1.2								
0730	1.1					1.3								
0900	1.0													
1030				1.1										
1200				1.2				1.4						
1330							1.5							
1500														
1630														
1800														
1930														
2100														
2230														
2400	1.0	1.1	1.1	1.2	1.3	1.3	1.5							

LAKE MICHIGAN - STATION 4. Depth 30 m.

Start 17 November 1963, 1300 CST; end 12 April 1964, 0905 CST.

Instrument serial no. 315, film record 20,018. Initial cal. -0.2°C; final cal. 0°C.

DATE	11-17	11-18	11-19	11-20	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28	11-29	11-30
TIME														
0130		11.5	11.4	11.4	11.2	11.2	11.2	10.9	10.5	10.5	10.5	10.2	10.1	9.6
0300								10.9						9.4
0430				11.4				10.8						9.3
0600				11.3										9.2
0730			11.4											
0900			11.3											
1030		11.5					11.2	10.8			10.5			
1200		11.4					11.1	10.7			10.4			
1330	11.7			11.2			11.0	10.6			10.4			
1500	11.5						11.0	10.6			10.3		10.1	
1630							10.9	10.5			10.3		10.0	
1800											10.2		9.9	
1930														
2100			11.3										9.9	
2230			11.4										9.8	
2400	11.5	11.4	11.4	11.2	11.2	11.2	10.9	10.5	10.5	10.5	10.2	10.2	9.8	9.2
DATE	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14
TIME														
0130	9.2	9.0	8.8	8.6	8.5	8.5	8.2	8.2	8.2	8.0	7.9	7.4	7.5	6.9
0300						8.6						7.5		6.9
0430						8.7								6.8
0600														6.7
0730		9.0		8.6					8.2	8.1	8.0	7.9		6.7
0900		8.9		8.7	8.5						7.9	7.8		6.8
1030				8.7	8.6						7.9	7.7		6.7
1200				8.8	8.6	8.7					7.8	7.6	7.5	6.8
1330					8.7	8.6						7.4	7.4	
1500				8.8		8.5			8.1			7.3	7.3	6.8
1630				8.9		8.3			8.0				7.2	6.7
1800				8.9		8.1							7.2	
1930		8.9		8.8								7.3	7.1	6.7
2100		8.8		8.8	8.7							7.4	7.1	6.6
2230	9.2		8.8	8.6	8.6								7.0	
2400	9.1	8.8	8.7	8.6	8.6	8.1	8.2	8.2	8.0	7.8	7.4	7.5	7.0	6.6
DATE	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28
TIME														
0130	6.5	6.2	5.9	5.7	5.5	5.5	5.0	4.7	4.5	4.6	4.3	4.0	3.9	4.0
0300		6.2				5.4					4.3			
0430		6.1				5.4	5.0			4.6	4.2			
0600						5.3	4.9			4.5	4.5			
0730										4.6				4.0
0900								4.7						3.9
1030								4.6						
1200	6.5	6.1	5.9	5.7				4.6		4.5		4.2	4.0	
1330	6.4	5.9	5.7	5.6				4.5			4.1	3.9		
1500	6.3			5.5		5.3								
1630	6.2		5.7			5.2	4.9							
1800			5.8			5.2	4.8							
1930			5.8			5.1	4.7							
2100			5.7											
2230						5.1					4.1			
2400	6.2	5.9	5.7	5.5	5.5	5.0	4.7	4.5	4.6	4.4	4.0	3.9	4.0	3.9

LAKE MICHIGAN, STATION 4, 30 m continued.

DATE	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
TIME														
0130	3.9	4.1	3.7	3.4	3.3	3.3	3.3	2.8	2.8	1.9	1.7	1.6	1.7	1.4
0300			3.6				3.2			1.8	1.6			
0430	3.9									1.7	1.5			
0600	4.0	4.1								1.6	1.5		1.7	
0730		4.0								1.5	1.6		1.6	
0900		4.0								1.5			1.5	
1030		3.9					3.2		2.8	1.4			1.5	
1200		3.9					2.9		2.6	1.3			1.4	
1330		3.8					2.8		2.4	1.2		1.6		
1500									2.4	1.3	1.6	1.7		1.4
1630									2.3	1.5	1.5	1.7		1.3
1800				3.4					2.2	1.5	1.5	1.8		1.2
1930				3.3					2.1	1.6	1.6			1.3
2100		3.8							2.1	1.6				1.3
2230		3.7	3.6						2.0	1.7		1.8		1.2
2400	4.0	3.7	3.5	3.3	3.3	3.3	2.8	2.8	2.0	1.5	1.6	1.7	1.4	1.3
DATE	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25
TIME														
0130	1.2	1.1	1.3	1.5	1.4	1.5	1.5	1.6	1.8	1.8	2.1	1.8	1.4	1.4
0300										1.9		1.8		
0430										1.9		1.7		
0600							1.5			2.0			1.4	1.4
0730	1.2	1.1					1.6			2.1			1.5	1.5
0900	1.1	1.2					1.6					1.7		
1030						1.5	1.7	1.6	1.8			1.6		
1200						1.4	1.7	1.5	1.7					1.5
1330				1.5			1.6	1.5			2.1			1.6
1500				1.4			1.5	1.6	1.7		2.0	1.6		1.7
1630			1.3				1.5	1.6	1.8			1.7	1.5	
1800	1.1	1.2	1.4				1.4	1.7			2.0	1.6	1.4	
1930	1.0	1.3						1.7			1.9	1.5		1.7
2100							1.4	1.8				1.5		1.8
2230			1.4				1.5				1.9	1.4		
2400	1.0	1.3	1.5	1.4	1.4	1.4	1.5	1.8	1.8	2.1	1.8	1.4	1.4	1.8
DATE	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8
TIME														
0130	1.8	1.9	1.7	1.8	1.3	1.9	1.7	1.6	2.0	1.7	1.3	1.9	1.5	1.7
0300				1.8		2.0							1.6	1.7
0430				1.6		1.9						1.9	1.8	1.8
0600	1.8	1.9		1.6		1.7						2.0	1.5	
0730	1.9	1.8		1.5	1.3	1.6						2.0		
0900			1.7	1.4	1.4		1.7		2.0		1.3	1.9		
1030			1.8	1.4	1.5		1.6		1.9		1.4	1.8	1.5	
1200				1.3					1.9		1.4	1.7	1.6	1.8
1330						1.6			1.8		1.3		1.7	1.7
1500						1.5		1.6	1.7	1.7		1.7	1.6	
1630			1.8					1.7	1.6	1.6		1.6		
1800			1.9		1.5			1.8	1.6	1.6	1.3	1.5		1.7
1930				1.6				1.9	1.5	1.4	1.4		1.6	1.6
2100			1.9		1.7	1.5			1.6	1.3	1.5		1.7	
2230		1.8	1.8		1.8	1.6			1.7		1.6			
2400	1.9	1.7	1.8	1.3	1.9	1.6	1.6	1.9	1.7	1.3	1.7	1.5	1.7	1.6

LAKE MICHIGAN, STATION 4, 30 m continued.

DATE	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22
TIME														
0130	1.6	1.9	1.8	1.7	1.5	1.3	1.3	1.3	1.5	1.5	1.4	1.3	1.5	1.2
0300						1.2		1.4	1.5	1.4	1.4	1.4		
0430								1.4	1.4		1.3			
0600				1.7				1.5			1.2		1.5	1.2
0730				1.6				1.4					1.4	1.1
0900									1.4					
1030				1.6					1.5					
1200	1.6		1.8	1.5				1.4						
1330	1.7		1.7					1.5						
1500								1.5					1.4	
1630	1.7		1.7	1.5				1.6	1.5		1.2		1.3	1.1
1800	1.8		1.6	1.6				1.7	1.6		1.3			1.2
1930			1.7	1.6		1.2		1.6						
2100				1.5		1.3						1.4	1.3	
2230					1.5							1.5	1.2	
2400	1.8	1.9	1.7	1.5	1.4	1.3	1.3	1.6	1.6	1.4	1.3	1.5	1.2	1.2
DATE	2-23	2-24	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7
TIME														
0130	1.2	1.3	1.0	1.2	1.4	1.5	1.7	1.7	1.4	1.4	1.2	1.3	1.3	1.2
0300			1.0			1.6	1.7	1.7	1.4	1.4				1.1
0430			1.1				1.8	1.8	1.3	1.3				
0600									1.3	1.2				
0730	1.2								1.2				1.3	
0900	1.3			1.2					1.1				1.2	
1030		1.3		1.3					1.2					
1200		1.2			1.4				1.2					
1330					1.5				1.1					
1500														
1630		1.2						1.8	1.1					
1800		1.1					1.8	1.7	1.2					
1930		1.0					1.7	1.7	1.4		1.2			
2100				1.3		1.6		1.6			1.3			
2230				1.4		1.8		1.6						
2400	1.3	1.0	1.1	1.4	1.5	1.7	1.7	1.5	1.4	1.2	1.3	1.3	1.2	1.1
DATE	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21
TIME														
0130	1.1	1.1	1.1	1.1	1.2	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.1	1.1
0300														1.1
0430														1.2
0600	1.1									1.2				
0730	1.0									1.3				
0900														
1030														
1200														
1330														
1500														
1630				1.1						1.3				
1800				1.2						1.2				
1930					1.2							1.2		
2100	1.0				1.3							1.1		
2230	1.1													
2400	1.1	1.1	1.1	1.2	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.1	1.1	1.2

LAKE MICHIGAN, STATION 4, 30 m continued.

DATE	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4
TIME														
0130	1.2	1.2	1.2	1.6	1.8	1.8	1.7	1.4	1.4	1.4	1.6	1.7	1.1	1.2
0300			1.2	1.6	1.7		1.6					1.6	1.1	
0430			1.3	1.7					1.4			1.5	1.2	
0600			1.3						1.3			1.4		
0730			1.4				1.6		1.3			1.3		
0900			1.5		1.7		1.7		1.4			1.3		
1030			1.5	1.7	1.8							1.2		
1200			1.6	1.8			1.7			1.4		1.1		
1330							1.6			1.5				
1500							1.5							
1630							1.4							
1800										1.5	1.6			
1930										1.6	1.7			
2100														
2230														
2400	1.2	1.2	1.6	1.8	1.8	1.8	1.4	1.4	1.4	1.6	1.7	1.1	1.2	1.3
DATE	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18
TIME														
0130	1.2	1.2	1.3	1.3	1.3	1.5	1.7							
0300					1.4									
0430														
0600						1.5								
0730						1.6	1.7							
0900														
1030				1.3			Data							
1200		1.2		1.4			Ends.							
1330		1.3												
1500						1.6								
1630						1.7								
1800														
1930					1.4									
2100				1.4	1.5									
2230				1.3										
2400	1.2	1.3	1.3	1.3	1.5	1.7								

LAKE MICHIGAN - STATION 5. Depth 10 m.

Start 25 November 1963, 0900 CST; end 12 April 1964, 1440 CST.

Instrument serial no. 326, film record 20,024. Initial cal. 0.3°C; final cal. 0.7°C.

DATE	11-25	11-26	11-27	11-28	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8
TIME														
0130		10.8	10.7	10.5	10.3	10.0	8.8	9.0	8.9	8.9	8.9	8.3	8.3	8.1
0300					10.3	9.8	8.8		8.9		8.9	8.3		
0430			10.7		10.2	9.3	8.9		8.8		8.8	8.2	8.3	
0600			10.6			9.2	9.0		8.7	8.9	8.8		8.2	
0730		10.8			10.2	9.1			8.8	8.8	8.7			
0900		10.7		10.5	10.1	9.0					8.6			
1030				10.4		8.9			8.8		8.5	8.2		
1200					10.1	8.9			8.9			8.3		
1330	10.7		10.6		10.0	8.8				8.8				
1500	10.8		10.5				9.0			8.9				8.1
1630				10.4			9.1							8.0
1800				10.3										
1930											8.5			
2100							9.1	9.0			8.4		8.2	
2230							9.0	8.9					8.1	
2400	10.8	10.7	10.5	10.3	10.0	8.8	9.0	8.9	8.9	8.9	8.4	8.3	8.1	8.0
DATE	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22
TIME														
0130	8.0	7.5	7.8	7.7	7.1	7.1	6.9	6.1	5.9	5.9	5.7	5.3	5.2	5.1
0300	7.9				7.0									5.1
0430	7.9					7.1								5.0
0600	7.8	7.5				7.0							5.2	
0730		7.6	7.8				6.9				5.7		5.1	
0900			7.7		7.0		6.7				5.6			
1030	7.8				7.1		6.6	6.1		5.9	5.5			
1200	7.7			7.7			6.3	6.0		5.8	5.4			
1330		7.6		7.6			6.1							
1500	7.7	7.7		7.6						5.8		5.3		
1630	7.6	7.8		7.5				6.0		5.7		5.2		
1800				7.4				5.9						
1930				7.3										
2100				7.3		7.0					5.4			
2230				7.2		6.9					5.3			
2400	7.6	7.8	7.7	7.1	7.1	6.9	6.1	5.9	5.9	5.7	5.3	5.2	5.1	5.0
DATE	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5
TIME														
0130	5.0	4.9	4.6	4.6	4.6	4.4	4.3	4.2	4.2	4.0	4.0	4.0	4.0	4.0
0300														
0430					4.6									
0600					4.5									
0730														
0900						4.4								
1030			4.6		4.5	4.3								
1200		4.9	4.5		4.4									
1330		4.8	4.5				4.3							
1500			4.6				4.2		4.2					
1630		4.8							4.1					
1800		4.7												
1930		4.7												
2100	5.0	4.6												
2230	4.9								4.1					
2400	4.9	4.6	4.6	4.6	4.4	4.3	4.2	4.2	4.0	4.0	4.0	4.0	4.0	4.0

LAKE MICHIGAN, STATION 5, 10 m continued.

DATE	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19
TIME														
0130	4.0	4.0	4.0	4.0	3.9	3.9	3.8	3.3	3.1	2.2	2.8	2.8	2.8	2.7
0300								3.3	3.0	2.3				
0430								3.2	3.0	2.4				
0600									2.7	2.5				2.7
0730									2.5	2.6				2.6
0900									2.3		2.8		2.8	
1030									1.9		2.9		2.7	
1200									1.6					
1330							3.8	3.2	1.5					
1500							3.7	3.1	1.6	2.6				
1630						3.9	3.7		1.8	2.7	2.9			
1800						3.8	3.6		1.9		2.8			
1930							3.5		2.0					
2100				4.0			3.4		2.0	2.7				
2230				3.9			3.3		2.1	2.8				
2400	4.0	4.0	4.0	3.9	3.9	3.8	3.3	3.1	2.2	2.8	2.8	2.8	2.7	2.6
DATE	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2
TIME														
0130	2.6	2.6	2.8	2.8	2.8	2.8	2.9	2.9	2.9	2.9	2.9	2.9	2.8	2.8
0300														
0430														
0600														
0730		2.6				2.8								
0900		2.7				2.7								
1030														
1200														
1330														
1500		2.7												2.8
1630		2.8												2.9
1800						2.7								
1930						2.8						2.9		
2100						2.9						2.8		
2230														
2400	2.6	2.8	2.8	2.8	2.8	2.9	2.9	2.9	2.9	2.9	2.9	2.8	2.8	2.9
DATE	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16
TIME														
0130	2.9	2.9	2.9	2.9	2.8	2.8	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.7
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500				2.9				2.8						
1630				2.8				2.7						
1800														
1930														
2100														
2230														
2400	2.9	2.9	2.9	2.8	2.8	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7

LAKE MICHIGAN, STATION 5, 10 m continued.

DATE	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	2-29	3-1
TIME														
0130	2.7	2.6	2.7	2.4	2.4	2.3	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3
0300			2.7											
0430			2.6	2.4										
0600		2.6		2.3	2.4									
0730		2.7			2.3					2.4				
0900										2.3				
1030			2.6			2.3								
1200			2.5			2.4								
1330				2.3										
1500				2.4										
1630	2.7													
1800	2.6													
1930			2.5											
2100			2.4											
2230														
2400	2.6	2.7	2.4	2.4	2.3	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3
DATE	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15
TIME														
0130	2.3	2.3	2.4	2.4	2.4	2.6	2.6	2.5	2.4	2.3	2.1	2.1	2.1	2.1
0300										2.3				
0430										2.2				
0600								2.5						
0730								2.4				2.1		
0900		2.3										2.0		
1030		2.4					2.6			2.2				
1200					2.4		2.5			2.1				
1330					2.5				2.4	2.3				2.1
1500														2.2
1630												2.0		
1800												2.1		
1930					2.5									
2100					2.6									
2230														
2400	2.3	2.4	2.4	2.4	2.6	2.6	2.5	2.4	2.3	2.1	2.1	2.1	2.1	2.2
DATE	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29
TIME														
0130	2.2	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
0300														
0430														
0600														
0730		2.1												
0900		2.2											2.1	
1030													2.2	
1200	2.2													
1330	2.1													
1500						2.2								
1630						2.1								
1800														
1930														
2100														
2230														
2400	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2

LAKE MICHIGAN, STATION 5, 10 m continued.

DATE	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12
TIME														
0130	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.4	2.4	2.5
0300														
0430														
0600														
0730														
0900														
1030													2.4	
1200													2.5	
1330														
1500														
1630								2.2						
1800								2.3						2.5
1930											2.3			Removed
2100											2.4			at 1700
2230														CST
2400	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.4	2.4	2.5	

LAKE MICHIGAN - STATION 5. Depth 15 m.

Start 25 November 1963, 0900 CST; end 12 April 1964, 1440 CST.

Instrument serial no. 149, film record 20,025. Initial cal. 0.3°C; final cal. 0.0°C.

DATE	11-25	11-26	11-27	11-28	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8
TIME														
0130		10.5	10.5	10.5	10.4	10.2	9.0	9.0	9.0	9.0	8.9	8.9	8.8	8.6
0300						10.0								
0430						9.8								8.6
0600				10.5		9.6						8.9		8.5
0730				10.4		9.4						8.8		
0900						9.2								
1030	10.4				10.4	9.1								
1200	10.5				10.3	9.0								
1330														8.5
1500														8.4
1630														
1800														
1930					10.3								8.8	8.4
2100					10.2								8.7	8.3
2230									9.0				8.7	8.3
2400	10.5	10.5	10.5	10.4	10.2	9.0	9.0	9.0	9.0	8.9	8.9	8.8	8.6	8.2

LAKE MICHIGAN, STATION 5, 15 m continued.

DATE	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22
TIME														
0130	8.2	7.9	7.9	7.9	7.4	7.4	7.2	6.6	6.0	6.0	6.0	5.5	5.3	5.2
0300	8.2						7.2							
0430	8.1						7.1							
0600											6.0	5.5		
0730	8.1					7.4	7.1	6.6			5.9	5.4		
0900	8.0					7.3	7.0	6.5			5.7		5.3	
1030							6.9	6.4					5.2	
1200							6.8	6.3						5.2
1330							6.7	6.2			5.7			5.1
1500							6.6	6.1			5.6			
1630								6.0						
1800	8.0													
1930	7.9			7.9		7.3						5.4		
2100				7.8		7.2					5.6	5.3		
2230				7.6							5.5			
2400	7.9	7.9	7.9	7.5	7.4	7.2	6.6	6.0	6.0	6.0	5.5	5.3	5.2	5.1
DATE	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5
TIME														
0130	5.1	5.0	5.0	4.9	4.9	4.9	4.8	4.7	4.7	4.2	4.2	4.3	4.3	4.3
0300														
0430										4.2	4.2			
0600										4.3	4.3			
0730			5.0						4.7					
0900			4.9				4.8		4.6					
1030							4.7							
1200									4.6					4.3
1330						4.9			4.5					4.2
1500						4.8							4.3	
1630									4.5	4.3	4.3		4.2	
1800	5.1								4.4	4.2	4.2			
1930	5.0								4.4					
2100									4.3					
2230									4.3					
2400	5.0	5.0	4.9	4.9	4.9	4.8	4.7	4.7	4.2	4.2	4.2	4.3	4.2	4.2
DATE	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19
TIME														
0130	4.2	4.2	4.1	4.1	4.1	4.0	4.0	3.9	3.2	2.1	2.6	2.7	2.7	2.7
0300									3.1	2.2				
0430									3.0	2.2				
0600					4.1			3.9	2.8	2.3	2.6			
0730					4.0			3.8	2.7	2.4	2.7			
0900								3.7	2.4					
1030									1.9	2.4				
1200									3.7	1.8				
1330									3.6	1.8				
1500			4.2						3.5	1.9				
1630		4.1					4.0	3.5		2.4				2.7
1800							3.9	3.4		2.5				2.6
1930									1.9					
2100									2.0					
2230								3.4		2.5				
2400	4.2	4.1	4.1	4.1	4.0	4.0	3.9	3.3	2.0	2.6	2.7	2.7	2.7	2.6

LAKE MICHIGAN, STATION 5, 15 m continued.

DATE	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2
TIME														
0130	2.6	2.6	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.8	2.8	2.8	2.8
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330										2.7				
1500		2.6								2.8				
1630		2.7												
1800														
1930														
2100														
2230														
2400	2.6	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.8	2.8	2.8	2.8	2.8
DATE	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16
TIME														
0130	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.7
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330												2.8		
1500												2.7		
1630														
1800														
1930														
2100														
2230														
2400	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.7
DATE	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	2-29	3-1
TIME														
0130	2.7	2.7	2.7	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.3
0300														
0430														
0600													2.4	
0730				2.6						2.5			2.3	
0900				2.5						2.4				
1030														
1200														
1330														
1500														
1630														
1800														
1930			2.7											
2100			2.6											
2230														
2400	2.7	2.7	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.3	2.3

LAKE MICHIGAN, STATION 5, 15 m continued.

DATE	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15
TIME														
0130	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.0	2.0	2.0	2.0
0300										2.2				
0430										2.1				
0600														
0730										2.1				
0900										2.0				2.0
1030														2.1
1200														
1330														
1500														
1630														
1800									2.3					
1930									2.2					
2100														
2230														
2400	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.0	2.0	2.0	2.0	2.1
DATE	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29
TIME														
0130	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
0300														
0430														
0600														
0730														
0900														
1030														
1200		2.1												
1330		2.0												
1500														
1630														
1800														
1930														
2100														
2230														
2400	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
DATE	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12
TIME														
0130	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500						2.0					2.1			2.2
1630						2.1					2.2			
1800														Data
1930														Ends.
2100														
2230														
2400	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	

LAKE MICHIGAN - STATION 5. Depth 22 m.

Start 25 November 1963, 0900 CST; end 12 April 1964, 1440 CST.

Instrument serial no. 330, film record 20,026. Initial cal. 0°C; final cal. idet.

DATE	11-25	11-26	11-27	11-28	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8
TIME														
0130		10.2	10.1	10.1	10.0	9.7	8.5	8.7	8.4	8.5	8.5	8.4	8.3	8.0
0300						9.6			8.5			8.4		
0430						9.5	8.5			8.5			8.3	
0600				10.1	10.0	9.2	8.6			8.4			8.2	
0730				10.0	9.9	9.0				8.3	8.5			
0900					9.9	9.0					8.4			
1030	10.1				9.8	8.8								
1200	10.2					8.7				8.3				
1330	10.3					8.6		8.7		8.4				
1500						8.6	8.6	8.6		8.5				
1630						8.5	8.7	8.6						
1800					9.8			8.5						
1930					9.7			8.4						
2100		10.2							8.5					8.0
2230		10.1							8.6				8.2	7.9
2400	10.3	10.1	10.1	10.0	9.7	8.5	8.7	8.4	8.6	8.5	8.4	8.3	8.1	7.8

DATE	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22
TIME														
0130	7.8	7.4	7.5	7.5	7.1	7.0	6.9	6.3	5.9	5.9	5.7	5.3	5.2	5.2
0300					7.0									
0430	7.8													
0600	7.7													
0730											5.7			
0900	7.7						6.9				5.6			
1030	7.6						6.7				5.5			
1200	7.6						6.6	6.3		5.9	5.4			
1330	7.5						6.4	6.2		5.8				
1500	7.4						6.3	6.1		5.7				
1630								6.0						
1800								6.0						
1930				7.5				5.9						
2100				7.4		7.0								
2230				7.3		6.9						5.3		
2400	7.4	7.4	7.5	7.2	7.0	6.8	6.3	5.9	5.9	5.7	5.4	5.2	5.2	5.2

DATE	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5
TIME														
0130	5.2	5.0	4.7	4.7	4.7	4.6	4.6	4.6	4.6	4.4	4.4	4.4	4.4	4.3
0300	5.1													
0430														
0600	5.1													
0730	5.0													
0900				5.7										
1030				4.8										
1200									4.6					
1330		5.0							4.5					
1500		4.9		4.8										
1630		4.9		4.7	4.7									
1800		4.8			4.6									
1930		4.8											4.4	
2100		4.7											4.3	
2230									4.4					
2400	5.0	4.7	4.7	4.7	4.6	4.6	4.6	4.6	4.4	4.4	4.4	4.4	4.3	4.3

LAKE MICHIGAN, STATION 5, 22 m continued.

DATE	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19
TIME														
0130	4.3	4.2	4.2	4.2	4.1	4.0	4.0	4.0	3.5	2.3	2.7	2.8	2.7	2.7
0300								4.0	3.5	2.4				
0430								3.9	3.4	2.5				
0600								3.8	3.3	2.5				
0730									3.1	2.6				
0900								3.8	2.9	2.6				
1030								3.7	2.7	2.7				
1200		4.2							2.4		2.7			
1330		4.1						3.7	2.1		2.8			
1500					4.1			3.6	1.9					
1630					4.0			3.6	1.9					
1800								3.5	2.0		2.8			
1930		4.1							2.0		2.7	2.8		
2100	4.3	4.2		4.2					2.1			2.7		
2230	4.2			4.1					2.2					
2400	4.2	4.2	4.2	4.1	4.0	4.0	4.0	3.5	2.3	2.7	2.7	2.7	2.7	2.7
DATE	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2
TIME														
0130	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.8	2.8	2.9	2.7
0300											2.8			
0430				2.7							2.9			
0600				2.8										
0730										2.7				
0900										2.8				
1030														
1200				2.8										
1330				2.7										
1500													2.9	
1630													2.8	
1800														
1930														
2100														
2230														
2400	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.8	2.9	2.8	2.7	2.7
DATE	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16
TIME														
0130	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
0300			2.7											
0430		2.7	2.8											
0600		2.8		2.7		2.7								
0730				2.8		2.8								
0900														
1030														
1200														
1330														
1500				2.8										
1630				2.7			2.8							
1800		2.8			2.8		2.7							
1930		2.7			2.7									
2100														
2230														
2400	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7

LAKE MICHIGAN, STATION 5, 22 m continued.

DATE	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	2-29	3-1
TIME														
0130	2.7	2.7	2.7	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.5
0300										2.6				
0430										2.5				
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930			2.7											
2100			2.6											
2230														
2400	2.7	2.7	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.5
DATE	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15
TIME														
0130	2.5	2.6	2.6	2.6	2.5	2.6	2.6	2.6	2.6	2.5	2.2	2.1	2.2	2.3
0300										2.4				
0430										2.4				
0600										2.3				
0730					2.5					2.3				
0900				2.6	2.6					2.2				
1030	2.5			2.5										
1200	2.6				2.6									
1330					2.7									
1500														
1630														
1800					2.7						2.2			
1930					2.6				2.6		2.1			
2100									2.5				2.2	
2230													2.3	
2400	2.6	2.6	2.6	2.5	2.6	2.6	2.6	2.6	2.5	2.2	2.1	2.1	2.3	2.3
DATE	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29
TIME														
0130	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.4
0300														
0430														
0600														
0730														
0900														
1030														
1200							2.4							
1330			2.3				2.3							
1500			2.4											
1630														
1800														
1930														
2100														
2230														
2400	2.3	2.3	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4

LAKE MICHIGAN, STATION 5, 22 m continued.

DATE	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12
TIME														
0130	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.4	2.4	2.4	2.5	2.5	2.5
0300					2.3						2.5			
0430														
0600														
0730														
0900														
1030														2.5
1200														
1330						2.3		2.3						Removed
1500						2.4		2.4						from
1630														water a
1800														1100.
1930														
2100														
2230														
2400	2.4	2.4	2.4	2.4	2.3	2.4	2.3	2.4	2.4	2.4	2.5	2.5	2.5	

LAKE MICHIGAN - STATION 5. Depth 30 m.

Start 25 November 1963, 0900 CST; end 12 April 1964, 1440 CST.

Instrument serial no. 229, film record 20,027. Initial cal. 0°C; final cal. 0°C.

DATE	11-25	11-26	11-27	11-28	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8
TIME														
0130		9.1	9.0	8.9	8.8	8.4	7.5	7.5	7.1	7.1	7.1	7.0	7.0	6.8
0300		9.1				8.2		7.6		7.0	7.1			
0430		9.0				8.1					7.0			
0600					8.8	7.9								
0730			9.0		8.7	7.8								
0900			8.9			7.7								
1030	9.1					7.6		7.6						
1200						7.5		7.5						
1330								7.4						
1500								7.3		7.0				
1630								7.2		7.1				6.8
1800					8.7	7.5		7.2						6.7
1930					8.6	7.6		7.1						6.6
2100				8.9									7.0	6.5
2230				8.8						7.1			6.9	
2400	9.1	9.0	8.9	8.8	8.6	7.6	7.5	7.1	7.1	7.2	7.0	7.0	6.8	6.5

LAKE MICHIGAN, STATION 5, 30 m continued.

DATE	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22
TIME														
0130	6.5	6.0	6.0	6.0	5.8	5.8	5.7	5.0	4.8	4.8	4.3	3.9	3.8	3.6
0300	6.5										4.3		3.8	
0430	6.4						5.7				4.2		3.7	3.6
0600	6.3						5.6			4.8	4.2		3.6	3.5
0730	6.2						5.5			4.7	4.1			3.4
0900	6.1					5.8	5.4			4.7	4.0			
1030	6.1					5.7	5.3			4.6				3.4
1200	6.0						5.1			4.4				3.3
1330								5.0		4.3				
1500								4.9						
1630														
1800				6.0				4.9						3.3
1930				5.9				4.8				3.9		3.2
2100				5.9			5.1				4.0	3.8		
2230				5.8			5.0				3.9			
2400	6.0	6.0	6.0	5.8	5.8	5.7	5.0	4.8	4.8	4.3	3.9	3.8	3.6	3.2
DATE	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5
TIME														
0130	3.2	3.1	3.0	3.0	3.0	2.9	2.9	2.9	2.9	2.8	2.8	2.8	2.8	2.8
0300														
0430		3.1												
0600	3.2	3.0												
0730	3.1													
0900														
1030														
1200														
1330														
1500					3.0									
1630					2.9									
1800														2.8
1930														2.7
2100									2.9					
2230									2.8					
2400	3.1	3.0	3.0	3.0	2.9	2.9	2.9	2.9	2.8	2.8	2.8	2.8	2.8	2.7
DATE	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19
TIME														
0130	2.7	2.7	2.7	2.7	2.5	2.4	2.3	2.2	2.0	1.0	1.2	1.2	1.1	1.1
0300				2.7					2.0					
0430				2.6					1.9					
0600									1.6	1.0				
0730							2.3	2.2	1.3	1.1		1.2		
0900						2.4	2.2	2.1	1.0			1.1		
1030						2.3			0.4					
1200									0.2					
1330				2.6					0.0					
1500				2.5					0.1					
1630					2.5				0.1					
1800					2.4				0.3					
1930									0.4					
2100						2.3			0.7	1.1				
2230						2.2			0.8	1.2				
2400	2.7	2.7	2.7	2.5	2.4	2.2	2.2	2.1	0.9	1.2	1.2	1.1	1.1	1.1

LAKE MICHIGAN, STATION 5, 30 m continued.

DATE	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2
TIME														
0130	1.1	1.1	1.1	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
0300														
0430					1.2									
0600			1.1		1.1									
0730			1.2											
0900														
1030														
1200														
1330														
1500														
1630														
1800														1.1
1930														1.2
2100														
2230														
2400	1.1	1.1	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2
DATE	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16
TIME														
0130	1.2	1.2	1.2	1.2	1.2	1.1	1.2	1.1	1.1	1.0	1.0	1.1	1.1	1.1
0300														
0430														
0600						1.1						1.1		
0730						1.2						1.0		
0900														
1030														
1200														
1330					1.2									
1500					1.1									
1630							1.2		1.1					
1800							1.1							
1930											1.0			
2100											1.1			
2230														
2400	1.2	1.2	1.2	1.2	1.1	1.2	1.1	1.1	1.0	1.0	1.1	1.0	1.1	1.1
DATE	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	2-29	3-1
TIME														
0130	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.0	1.0	1.0	1.0	1.0	0.9	0.9
0300														
0430														
0600														
0730					1.0									
0900					1.1									
1030							1.1							
1200							1.0							
1330				1.1										
1500				1.0										
1630														
1800												1.0		
1930												0.9		
2100														
2230														
2400	1.1	1.1	1.1	1.0	1.1	1.1	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.9

LAKE MICHIGAN, STATION 5, 30 m continued.

DATE	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15
TIME														
0130	0.9	1.0	1.0	1.0	1.0	1.1	1.0	1.0	1.0	0.9	0.5	0.4	0.3	0.5
0300														0.6
0430										0.9				0.7
0600	0.9					1.1				0.8				
0730	1.0					1.0				0.7		0.4		
0900										0.6		0.3		
1030											0.5			
1200											0.4			
1330														
1500													0.3	
1630					1.0								0.4	
1800					1.1					0.6				
1930										0.5				
2100									1.0					
2230									0.9					
2400	1.0	1.0	1.0	1.0	1.1	1.0	1.0	1.0	0.9	0.5	0.4	0.3	0.4	0.7
DATE	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29
TIME														
0130	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.7	0.6	0.6	0.7
0300														
0430														
0600							0.7							
0730							0.8							0.7
0900														0.8
1030														
1200										0.8				
1330										0.7				
1500														
1630					0.8								0.6	
1800					0.7						0.7		0.7	
1930											0.6			
2100														
2230														
2400	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.7	0.6	0.6	0.7	0.8
DATE	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12
TIME														
0130	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	0.9	1.0	1.0
0300														
0430												0.9		
0600												1.0		
0730		0.8												
0900		0.9												
1030														
1200														
1330														1.0
1500											1.0			
1630								0.9			0.9			Ends at
1800								1.0						1400 CST
1930														
2100														
2230														
2400	0.8	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	0.9	1.0	1.0	

LAKE MICHIGAN - STATION 5. Depth 60 m.

Start 25 November 1963, 0900 CST; end 12 April 1964, 1440 CST.

Instrument serial no. 273, film record 20,028. Initial cal. 0.4°C; final cal. -0.2°C.

DATE	11-25	11-26	11-27	11-28	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8
TIME														
0130		4.5	4.4	4.4	4.4	4.5	4.6	4.7	4.6	4.7	4.8	4.5	5.3	5.1
0300								4.7			4.8			5.0
0430								4.8			4.7		5.3	4.9
0600						4.5		4.8			4.6	4.5	5.2	
0730						4.6		4.7			4.8	4.6		
0900	4.5									4.8				4.9
1030								4.7		4.7		4.6	5.2	4.8
1200								4.6		4.6		5.0	5.3	4.8
1330		4.5									4.6	5.1	5.4	4.6
1500		4.4									4.6	4.5	4.9	4.5
1630										4.7		4.6	6.7	4.4
1800									4.6	4.8		4.6	5.7	
1930									4.7			4.8	5.6	
2100					4.4							5.0	5.6	
2230					4.5							5.3	5.1	
2400	4.5	4.4	4.4	4.4	4.5	4.6	4.6	4.6	4.7	4.8	4.5	5.8	5.1	4.4
DATE	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22
TIME														
0130	4.4	4.5	4.4	4.6	5.2	4.9	6.9	6.8	5.4	6.3	6.2	5.6	5.6	5.2
0300					5.2	4.9			5.5	6.4			5.6	
0430					5.9	5.0			5.6		6.2		5.5	
0600					5.4	5.0		6.8	5.6		6.1		5.4	
0730					5.0	5.4		6.7	5.8	6.4			5.4	
0900			4.4	4.6	4.9	6.4			6.0	6.3		5.6	5.3	
1030			4.5	4.7	4.7			6.7	6.2			5.5	5.2	
1200					4.6			6.5	6.3	6.3				
1330	4.4					6.4		6.2		6.2				
1500	4.5					6.6		6.2				5.5		
1630						6.7		6.1	6.3		6.1	5.6		
1800				4.7		6.8	6.9	6.0	6.4		5.9			
1930				4.8	4.6	6.9	6.7	5.9			5.7			
2100		4.5		4.8	4.7			5.9		6.2	5.7			
2230		4.4		5.0				5.7		6.3	5.6			
2400	4.5	4.4	4.5	5.0	4.7	6.9	6.7	5.5	6.4	6.3	5.6	5.6	5.2	5.2
DATE	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5
TIME														
0130	5.2	5.1	4.7	4.7	4.4	4.4	4.2	4.2	4.0	3.8	3.8	3.8	3.7	3.7
0300						4.3								
0430								4.2						
0600			4.7					4.1						
0730			4.7						4.0					
0900			4.6						3.9					
1030		5.1	4.7	4.7										
1200		5.0		4.6								3.8		
1330	5.2			4.5		4.3						3.7		
1500	5.1	5.0				4.4								
1630		4.9		4.5		4.3		4.1						
1800		4.8		4.6				4.0	3.9					
1930		4.7							3.8					
2100														
2230					4.3									
2400	5.1	4.7	4.7	4.6	4.4	4.2	4.2	4.0	3.8	3.8	3.8	3.7	3.7	3.7

LAKE MICHIGAN, STATION 5, 60 m continued.

DATE	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19
TIME														
0130	3.7	3.8	3.8	3.7	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
0300														
0430														
0600														
0730														
0900														
1030														
1200				3.7										
1330				3.6										
1500														
1630														
1800				3.6										
1930				3.5										
2100														
2230														
2400	3.7	3.8	3.8	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
DATE	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2
TIME														
0130	3.5	3.3	3.4	3.3	3.1	3.0	1.3	2.1	2.3	2.4	2.3	2.3	2.3	2.2
0300							1.5							
0430	3.5						1.6		2.3					
0600	3.4						1.7		2.4					
0730							1.7							
0900			3.4			3.0	1.8							
1030			3.3			2.9	1.9	2.1					2.3	
1200								2.2					2.2	
1330				3.3	3.1	2.9								
1500				3.2	3.0	2.6								
1630	3.4					2.3	1.9							
1800	3.3					2.2	2.0							
1930						1.8		2.2						
2100					3.0	1.4	2.0	2.3						
2230					2.9	1.3	2.1							
2400	3.3	3.3	3.3	3.2	2.9	1.3	2.1	2.3	2.4	2.4	2.3	2.3	2.2	2.2
DATE	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16
TIME														
0130	2.2	2.4	2.4	2.4	2.4	2.2	2.3	2.4	2.4	2.5	2.5	2.5	2.5	2.4
0300														
0430	2.2													
0600	2.3					2.2								
0730						2.3								
0900	2.3				2.4									2.4
1030	2.4				2.3	2.3								2.3
1200						2.4								
1330														
1500														
1630													2.5	
1800													2.4	
1930					2.3									
2100					2.2	2.4								
2230						2.3			2.4					
2400	2.4	2.4	2.4	2.4	2.2	2.3	2.3	2.4	2.5	2.5	2.5	2.5	2.4	2.3

LAKE MICHIGAN, STATION 5, 60 m continued.

DATE TIME	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	2-29	3-1
0130	2.3	2.4	2.5	2.5	2.5	2.5	2.5	2.4	2.3	2.3	2.3	2.2	2.2	2.1
0300														
0430							2.5							
0600		2.4					2.4				2.3			
0730		2.5									2.2			
0900								2.4						
1030							2.3							2.1
1200														2.0
1330													2.2	
1500													2.1	
1630														
1800	2.3													
1930	2.4													
2100														
2230														
2400	2.4	2.5	2.5	2.5	2.5	2.5	2.4	2.3	2.3	2.3	2.2	2.2	2.1	2.0
DATE TIME	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15
0130	2.0	1.6	1.5	1.5	1.5	1.6	1.8	1.7	1.9	1.9	1.9	1.9	1.9	1.8
0300														
0430		1.6				1.6		1.7						
0600		1.5				1.7		1.8					1.9	
0730													1.8	
0900														
1030						1.7								
1200						1.8								
1330	2.0													
1500	1.8													
1630	1.7													
1800	1.6													
1930							1.8							
2100							1.7	1.8						
2230	1.6							1.9						
2400	1.6	1.5	1.5	1.5	1.5	1.8	1.7	1.9	1.9	1.9	1.9	1.9	1.8	1.8
DATE TIME	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29
0130	1.8	1.8	1.7	1.7	1.8	1.6	1.6	1.7	1.9	1.9	1.9	1.9	1.9	1.9
0300														1.9
0430														2.0
0600								1.7						
0730					1.8			1.8						
0900					1.7									
1030														
1200		1.8						1.6						2.0
1330		1.7						1.7						2.1
1500														
1630														
1800				1.7										
1930				1.8										
2100					1.7									
2230					1.6									
2400	1.8	1.7	1.7	1.8	1.6	1.6	1.7	1.8	1.9	1.9	1.9	1.9	1.9	2.1

LAKE MICHIGAN, STATION 5, 60 m continued.

DATE TIME	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12
0130	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.2	2.2	2.3	2.3	
0300														
0430														
0600														
0730														
0900														
1030														
1200		2.1												
1330		2.0												
1500								2.0					2.3	
1630								2.1					End	
1800														
1930														
2100											2.2			
2230								2.1			2.3			
2400	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.2	2.2	2.3	2.3		

LAKE MICHIGAN - STATION 7. Depth 10 m.

Start 18 November 1963, 0800 CST; end 2 April 1964, 0900 CST.

Instrument serial no. 344, film record 20,035. Initial cal. 0°C; final cal. indet.

DATE TIME	11-18	11-19	11-20	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28	11-29	11-30	12-1
0130		9.7	9.5	10.1	10.3	9.5	8.6	8.5	9.3	8.6	8.3	8.2	8.5	7.3
0300			9.5	10.2		9.3				8.5		8.5	8.6	
0430			9.8			9.2	8.6			8.4		8.6		
0600			10.1			9.1	8.5			8.3		8.4	8.6	
0730		9.7	10.3			9.0	8.6					8.3	8.5	
0900	10.1	9.6				8.9	8.7	8.5	9.3			8.5		
1030	10.2		10.3		10.3		8.7	8.4	9.2			8.5		
1200	10.2	9.6	10.2		10.2		8.8	8.4				8.4		
1330	10.1	9.7			10.1		8.7	8.5	9.2	8.3		8.5	8.5	
1500	10.0	9.7			10.0	8.9	8.6	8.9	9.1	8.4		8.5	8.3	
1630	9.8	9.8		10.2	9.8	9.0		9.1		8.5		8.6	8.1	
1800	9.8	9.7	10.2	10.3	9.9		8.6	9.1	9.1	8.4		8.4	7.7	7.3
1930	9.7	9.6	10.3		10.0	9.0	8.5	9.2	9.2	8.4		8.6	7.5	7.2
2100			10.1		10.0	8.9		9.3		8.3		8.5	7.4	7.1
2230			10.0		9.9	8.8			9.2		8.3	8.4		
2400	9.7	9.6	10.1	10.3	9.7	8.7	8.5	9.3	8.9	8.3	8.2	8.5	7.4	6.9

LAKE MICHIGAN, STATION 7, 10 m continued.

DATE	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15
TIME														
0130	7.0	7.0	6.9	7.1	6.6	6.3	6.2	6.3	5.6	6.0	5.3	5.2	4.7	4.3
0300	7.1	7.0	6.9	7.0				6.2	5.5	5.9	5.3	5.3	4.4	4.2
0430	7.2	6.7	7.0				6.2	6.2	5.5	5.9	5.4	5.1	4.4	4.0
0600	7.1						6.1	6.1	5.7	5.8	5.5	4.6	4.3	3.7
0730		6.7			6.6		5.9	6.1	5.7	5.9	5.4	4.8	4.1	3.7
0900		6.8	7.0		6.2		5.5	6.0	5.9	6.0		4.9	4.5	3.9
1030		6.9	7.1	7.0	5.8		5.5	5.9	6.1	6.0			4.5	4.3
1200	7.1	6.9		6.9	5.7	6.3	5.6	5.7	6.1	5.8	5.4	4.9	4.2	3.4
1330	7.0	6.8			5.7	6.2	5.8	5.9	6.2	5.6	5.5	4.7	4.2	3.4
1500				6.9	5.8	6.1	5.9	6.0	6.1	5.1		4.8	4.4	3.9
1630		6.8		6.8	6.0	6.2		6.1	6.0	5.0		5.1	4.3	3.5
1800		6.7			6.1	5.9	5.8	6.0	5.0			4.5		3.5
1930		6.8		6.8		6.2	6.0	5.6	6.1	5.1		4.3		3.4
2100		6.9			6.7	6.1	6.1	5.6		5.2	5.5			3.3
2230				6.7	6.2		6.2	5.8		5.2	5.4	4.3		3.3
2400	7.0	6.9	7.1	6.6	6.3	6.2	6.2	5.9	6.1	5.1	5.3	4.5	4.3	3.4
DATE	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29
TIME														
0130	3.4	2.3	2.6	2.2	1.1	0.4	0.3	0.3	0.9	0.8	0.5	1.6	1.3	0.6
0300	3.3	2.2	2.7		0.6			0.5			0.5	1.5	1.3	0.6
0430	3.2	2.2	2.8		0.5				0.9	0.8	0.6		1.2	0.5
0600	3.1	2.3			0.4				0.8	0.7				
0730	3.0	2.5					0.5			0.7	0.6			
0900	2.9	2.4			0.4		0.4			0.6	0.9		1.2	0.5
1030	2.8	2.7	2.8	2.2	0.5	0.4	0.3	0.3		0.6	0.9		1.0	0.4
1200	2.8	3.2	2.6	2.1	0.6	0.3	0.4	0.4		0.5	1.1		0.8	0.4
1330	2.7	3.0	2.4	2.1			0.2	0.5	0.8	0.5	1.3			0.3
1500	2.6	2.4	2.2	1.9	0.6			0.5	0.9	0.4	1.5			
1630	2.5	2.3	2.1	1.7	0.5			0.6		0.3		1.5	0.8	
1800		2.3		1.4				0.5		0.3	1.5	1.4	0.7	
1930		2.4		1.3				0.5		0.4	1.6	1.4	0.6	
2100		2.5		1.4	0.5			0.6	0.9			1.3		
2230	2.5	2.5		1.5	0.4			0.7	0.8		1.6			
2400	2.4	2.6	2.1	1.4	0.4	0.3	0.2	0.9	0.7	0.4	1.7	1.3	0.6	0.3
DATE	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12
TIME														
0130	0.3	0.2	0.3	0.5	0.3	1.3	1.0	1.1	1.2	1.2	1.3	1.3	0.3	0.3
0300		0.1	0.4			1.2	1.0		1.1					0.4
0430			0.3	0.5	0.3		0.9					1.3		0.8
0600			0.4	0.4	0.5							1.2	0.3	0.9
0730					0.7	1.2				1.2		1.2	0.2	1.0
0900			0.4		0.9	1.3		1.1		1.3		1.1	0.1	
1030			0.5		1.0	1.2		1.2				1.1		1.0
1200			0.5		1.0	1.2			1.1			1.0		1.2
1330			0.6		1.1	1.1			1.0			1.0		1.3
1500	0.3		0.7		1.2							0.9		1.3
1630	0.2		0.8	0.4					1.0			0.9		1.4
1800		0.1	0.9	0.3	1.2		0.9	1.2	1.1			0.8		
1930		0.2	0.8		1.3		1.0	1.3	1.2			0.7		
2100		0.2	0.7				1.1					0.7		
2230		0.3	0.6									0.6	0.1	
2400	0.2	0.3	0.5	0.3	0.3	1.1	1.1	1.3	1.2	1.3	1.3	0.5	0.2	1.4

LAKE MICHIGAN, STATION 7, 10 m continued.

DATE	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26
TIME														
0130	1.4	1.1	0.8	0.8	0.4	0.5	0.3	0.6	0.6	0.6	0.6	1.2	0.3	0.1
0300	1.4	1.0					0.3		0.5			1.1		0.1
0430	1.5	0.9					0.4							0.2
0600							0.5							0.3
0730	1.5										0.6	1.1		
0900	1.4	0.9							0.5		0.7	1.0		
1030	1.3	0.8							0.6		0.8	0.9		
1200					0.4						0.8	0.8		0.3
1330					0.5	0.5					0.9	0.7		
1500					0.4		0.5				1.0	0.6		
1630	1.3						0.6			0.6		0.6		
1800	1.2			0.8					0.6	0.5		0.5		
1930	1.2			0.7					0.7		1.0	0.5		
2100	1.0			0.6	0.5					0.5	1.1	0.4		
2230	1.0			0.5	0.4	0.4				0.6	1.1		0.3	
2400	1.1	0.8	0.8	0.5	0.4	0.3	0.6	0.6	0.7	0.6	1.2	0.4	0.2	0.3
DATE	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
TIME														
0130	0.3	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.2	0.1
0300	0.2									0.4			0.3	
0430	0.1									0.5			0.3	
0600	0.1												0.2	
0730	0.0				0.2						0.4		0.2	
0900					0.3					0.5			0.1	
1030										0.4				
1200	0.0									0.4				
1330	0.1									0.3	0.5		0.1	
1500											0.4		0.2	
1630														
1800		0.1										0.3		
1930		0.2										0.2		
2100										0.3	0.4			
2230										0.4	0.3			
2400	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.2	0.1	0.2
DATE	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23
TIME														
0130	0.2	0.2	0.3	0.3	0.3	0.3	0.5	0.3	0.4	0.4	0.7	1.1	0.6	0.9
0300						0.3			0.5	0.6	0.8			0.8
0430	0.2					0.4			0.6	0.7	0.9			0.8
0600	0.3	0.2				0.5				0.8	0.8			0.7
0730		0.3				0.6				0.8	0.9			0.7
0900						0.5			0.6	0.9		1.1		0.6
1030							0.5		0.5			1.0		0.6
1200							0.4		0.4			0.9		0.5
1330							0.3		0.4				0.6	0.5
1500									0.3				0.8	0.4
1630										0.9	0.9			
1800	0.3									0.8	1.0	0.9		0.4
1930	0.2										1.1	0.8	0.8	0.3
2100												0.8	0.9	
2230								0.3		0.8		0.7		
2400	0.2	0.3	0.3	0.3	0.3	0.5	0.3	0.4	0.3	0.7	1.1	0.6	0.9	0.3

LAKE MICHIGAN, STATION 7, 10 m continued.

DATE	2-24	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
TIME														
0130	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.7	0.6	0.6	0.7	0.9	1.0	1.2
0300		0.4				0.5		0.6	0.6		0.8			
0430									0.5					
0600								0.6						
0730		0.4					0.4	0.5					1.0	
0900		0.3					0.5	0.5					1.1	
1030					0.3		0.6	0.6	0.5		0.8			
1200					0.4				0.6		0.9			
1330			0.3								1.0	0.9	1.1	
1500			0.4				0.6			0.6	1.1	1.0	1.2	
1630							0.7			0.7	1.0		1.1	1.2
1800													1.2	1.3
1930			0.4			0.5								
2100			0.3			0.4	0.7							
2230						0.5	0.6							
2400	0.3	0.3	0.3	0.3	0.4	0.4	0.6	0.6	0.6	0.7	1.0	1.0	1.2	1.3
DATE	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22
TIME														
0130	1.3	1.1	1.2	1.3	1.4	1.3	1.3	1.8	2.0	1.5	1.8	1.8	1.8	2.1
0300								1.8				1.8		
0430	1.3				1.4			1.9		1.5	1.8	1.9		
0600	1.2				1.3		1.3	2.0		1.6	1.7			
0730	1.3						1.4	2.1	2.0		1.7			
0900				1.3		1.3	1.3	2.3	1.9		1.8	1.9		
1030		1.1		1.4		1.4		2.2	1.8	1.6		2.0		
1200		1.2					1.3	2.2	1.7	1.7		2.1	1.8	
1330							1.4	2.3	1.6				1.9	
1500	1.3							2.2	1.6				2.0	
1630	1.2						1.4		1.5				2.1	2.1
1800				1.4			1.5					2.0		2.2
1930				1.3				2.2		1.7		1.9		2.1
2100				1.4		1.4	1.5	2.1		1.8		1.9		
2230				1.3		1.3	1.6					1.8		
2400	1.2	1.2	1.2	1.4	1.3	1.3	1.7	2.1	1.5	1.8	1.8	1.8	2.1	2.1
DATE	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5
TIME														
0130	2.1	2.2	2.2	2.0	1.7	1.7	1.6	1.3	1.3	1.5	1.5			
0300				1.9	1.7		1.5							
0430				1.9	1.6									
0600				1.8										
0730						1.7					1.5			
0900						1.8	1.5	1.3				End of record.		
1030							1.6	1.4		1.5				
1200			2.2							1.6				
1330	2.1		2.3							1.5				
1500	2.2		2.3											
1630			2.1			1.8	1.6							
1800			2.0			1.7	1.5							
1930			2.0			1.6	1.5	1.4	1.3					
2100			2.1				1.4	1.3	1.4					
2230			2.2				1.4		1.4					
2400	2.2	2.2	2.1	1.8	1.6	1.6	1.3	1.3	1.5	1.5				

LAKE MICHIGAN - STATION 7. Depth 15 m.

Start 18 November 1963, 0800 CST; end 2 April 1964, 0900 CST.

Instrument serial no. 236, film record 20,036. Initial cal. 0.2°C; final cal. 0°C.

DATE	11-18	11-19	11-20	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28	11-29	11-30	12-1
TIME														
0130		9.5	9.4	10.2	10.3	9.4	9.0	8.7	9.2	9.2	8.5	8.2	8.4	7.6
0300			9.5			9.2			9.3	9.2			8.3	7.5
0430									9.4	8.2			8.2	7.3
0600				10.2						8.4				7.4
0730			9.5	10.0		9.2		8.7		8.5	8.5	8.2		7.3
0900	9.4	9.5	9.7	10.1		9.1	9.0	8.8			8.4	8.3	8.2	7.2
1030	9.4	9.6	9.9	10.2			8.9	8.8			8.2	8.5	8.4	
1200	9.6		10.2	10.3			8.7	8.7	9.4			8.4	8.4	
1330	9.7	9.6	10.3		10.3		8.7		9.3			8.2	8.5	
1500	9.9	9.4	10.2		10.2		8.8					8.3		
1630	10.0	9.5			10.2		8.7	8.7				8.2		
1800	10.0	9.6			10.0			8.8	9.3			8.1		
1930	9.9	9.4			9.7			9.0	9.2				8.5	7.2
2100	9.5	9.4	10.2		9.6			9.1				8.1	8.4	7.1
2230		9.3	10.1		9.5			9.1				8.2	8.1	
2400	9.5	9.3	10.2	10.3	9.6	9.1	8.7	9.3	9.2	8.5	8.2	8.2	7.9	7.1

DATE	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15
TIME														
0130	7.1	6.9	6.4	7.1	6.8	5.8	6.2	5.7	5.8	5.9	4.8	5.4	5.0	4.2
0300	7.1	6.9	6.4		6.7	6.0		5.8	5.7	6.0	4.6		5.0	4.0
0430	7.0	7.0	6.3		6.7	6.1		5.9	5.4	6.0			4.4	4.0
0600	6.9				6.6	6.2		6.0	5.6	6.1		5.4	4.2	4.2
0730	6.9					6.2		6.1	5.7	6.0	4.6	5.3	4.3	4.1
0900	7.0				6.6			6.1	5.8	6.0	4.7		4.4	4.2
1030	7.1	7.0			6.5			5.8	5.5	5.9	4.8	5.3	4.6	4.1
1200	7.1	6.8	6.3				6.2	6.1		5.9	5.1	5.2	4.8	4.0
1330	6.9	6.6	6.5		6.5		6.1	6.0	5.5	5.6	5.1	5.2	4.2	3.8
1500	7.0	6.5	6.7		6.4		6.0	6.0	5.4	5.7	5.2	5.1	4.6	3.6
1630			6.8		6.0		5.8	5.9	5.4	5.6	5.4	5.0	4.1	3.7
1800		6.5	6.9		5.3		5.5	5.8	5.3	5.7	5.4	5.1	4.2	3.4
1930	7.0	6.7		7.1	5.4		5.6	5.7	5.5	5.8	5.3	5.0	4.7	4.0
2100	6.9	6.6	6.9	7.0	5.4		5.6	5.6	5.7	5.7	5.2	5.1	4.4	3.9
2230		6.5	7.0	6.9	5.5		5.7	5.8	5.9	5.4	5.3	5.0	4.2	3.2
2400	6.9	6.5	7.0	6.8	5.7	6.2	5.8	5.8	6.0	5.2	5.3	4.7	3.3	3.4

DATE	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29
TIME														
0130	3.4	2.5	3.0	2.4	1.9	0.9	0.2	0.2	0.9	1.2	1.4	1.4	1.4	1.5
0300	3.3		2.5	2.3	1.7	0.8			1.0	1.1	1.2	1.5	1.3	1.6
0430	3.3	2.5	2.4	2.2	1.4	0.7			1.4	1.2	1.4	1.6		1.4
0600	3.2	2.4			1.3	0.6			1.4	1.2	1.5	1.6		1.1
0730						0.5			1.5	1.1	1.6	1.7	1.3	1.0
0900	3.2	2.4			1.3	0.4			1.6	1.2	1.7	1.8	1.4	0.9
1030	3.3	2.3			1.4	0.4			1.8	1.1	1.8	1.9	1.3	0.8
1200	3.3		2.4	2.2	1.2	0.3		0.2	1.8	1.3	1.8		1.3	0.6
1330	3.2		2.5	2.1	0.7	0.3		0.3	1.6	1.4	1.3		1.2	0.6
1500	3.1	2.3	2.6		0.4	0.2		0.4	1.5	1.5	1.1	1.9		0.5
1630	3.0	2.4	2.6		0.3			0.5	1.4	1.6	0.9	1.8		0.5
1800	2.9	2.9	2.5						1.3		0.8	1.5		0.4
1930	2.8	3.0	2.6		0.3			0.5	1.2	1.6	0.8	1.5	1.2	0.4
2100	2.7	3.2	2.7		0.4			0.6		1.7	1.2	1.4	1.3	0.6
2230	2.6	3.4	2.7	2.1	0.8			0.6			1.2		1.4	0.5
2400	2.6	3.5	2.6	2.0	1.1	0.2	0.2	0.8	1.2	1.7	1.3	1.4	1.5	0.5

LAKE MICHIGAN, STATION 7, 15 m continued.

DATE	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12
TIME														
0130	0.4	0.2	0.2	1.2	1.2	1.0	1.0	1.1	1.1	1.3	1.3	1.3	1.2	0.2
0300	0.3		0.2	1.2	1.3					1.2	1.3			
0430	0.2		0.3	1.3		1.0					1.4			0.2
0600			0.4	1.6	1.3	1.1	1.0	1.1					1.2	0.1
0730			0.5	2.1	1.4		1.1	1.3	1.1		1.4		1.1	
0900	0.2		0.6	2.2	1.7		1.1	1.3	1.2		1.5		1.1	0.1
1030	0.3		0.7	2.1	1.8		1.2	1.2				1.3	1.0	0.0
1200	0.3		0.7	2.0	1.8							1.2		
1330	0.2		0.6	1.8	1.7	1.1							1.0	
1500			1.2	1.6	1.6	1.0	1.2						0.9	
1630			1.0	1.5	1.5		1.3				1.5		0.8	
1800			1.1	1.4	1.4	1.0	1.3				1.4		0.7	
1930			1.1	1.4	1.2	0.9	1.1	1.2	1.2				0.6	
2100			1.3	1.3	1.1	1.0	1.3	1.1	1.3				0.4	0.0
2230			1.4	1.2	0.9		1.3		1.4				0.4	0.1
2400	0.2	0.2	1.2	1.2	0.8	1.0	1.1	1.1	1.4	1.2	1.4	1.2	0.3	0.1
DATE	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26
TIME														
0130	0.2	1.4	1.2	1.1	1.0	0.3	0.9	0.8	0.5	0.5	0.8	0.4	0.7	0.4
0300	0.4						0.9							
0430	0.6						0.8	0.8						
0600	0.8	1.4					0.7	0.9			0.8			
0730	0.9	1.5					0.6	0.8			0.9	0.4		
0900	0.9							0.7			0.8	0.5		
1030	1.0					0.3		0.6			0.8	0.6		
1200	1.1	1.5				0.4		0.5			0.7	0.7		
1330	1.2	1.4		1.1	1.0	0.4								
1500		1.4		1.0	0.9	0.5	0.6				0.7			
1630	1.2	1.3			0.9	0.6	0.7				0.6			
1800	1.3	1.3			0.7	0.6	0.7				0.6		0.7	
1930	1.3	1.2			0.6	0.7	0.8			0.5	0.5		0.6	
2100	1.4	1.2			0.5	0.8				0.6			0.6	
2230		1.1			0.4	0.9				0.7	0.5		0.5	
2400	1.4	1.1	1.2	1.0	0.3	0.9	0.8	0.5	0.5	0.8	0.4	0.7	0.5	0.4
DATE	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
TIME														
0130	0.3	0.3	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.5	0.2
0300				0.0									0.4	
0430				0.1							0.2			
0600	0.3			0.2							0.3			
0730	0.2								0.2					
0900									0.3					
1030	0.2	0.3	0.0								0.3			
1200	0.3	0.2	0.1						0.3		0.4			
1330		0.1							0.2			0.5		
1500			0.1								0.4	0.6		
1630			0.0								0.5		0.4	
1800													0.3	
1930		0.1										0.6		0.2
2100		0.0										0.5		0.1
2230													0.3	
2400	0.3	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.5	0.2	0.1

LAKE MICHIGAN, STATION 7, 15 m continued.

DATE	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23
TIME														
0130	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.5	0.3	0.2	0.2	0.8	0.7	0.8
0300				0.2									0.8	0.7
0430		0.1		0.3										
0600		0.2		0.4										
0730				0.5					0.3			0.8		0.7
0900									0.2		0.2	0.7		0.8
1030				0.5							0.3	0.7	0.8	
1200				0.4							0.3	0.6	0.9	0.8
1330				0.4						0.2	0.4		1.0	0.7
1500				0.3						0.4	0.4			0.6
1630							0.2				0.5			0.5
1800							0.4				0.6			0.4
1930							0.5			0.4	0.7	0.6	1.0	
2100							0.6			0.3	0.7	0.7	0.9	
2230								0.5		0.2	0.8			
2400	0.1	0.2	0.2	0.3	0.2	0.2	0.6	0.4	0.2	0.2	0.8	0.7	0.9	0.4
DATE	2-24	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
TIME														
0130	0.5	0.6	0.6	0.3	0.3	0.4	0.4	0.6	0.7	0.7	0.7	1.1	1.1	1.1
0300	0.6	0.5	0.5	0.3									1.0	
0430	0.7	0.5	0.5	0.2				0.6			0.7			
0600		0.4	0.4					0.7			0.8			
0730											0.9			
0900		0.4						0.7			1.0			
1030		0.3						0.8						
1200							0.4							
1330							0.5							
1500	0.7			0.2										
1630	0.8			0.3				0.8						
1800		0.3						0.7						
1930		0.4				0.4								
2100	0.8	0.6											1.0	1.1
2230	0.7	0.7					0.5				1.0		1.1	
2400	0.6	0.6	0.4	0.3	0.3	0.3	0.6	0.7	0.7	0.7	1.1	1.1	1.1	1.0
DATE	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22
TIME														
0130	1.0	1.0	1.0	1.2	1.3	1.3	1.3	1.6	2.3	1.7	1.6	1.7	2.0	2.0
0300										1.6	1.6			
0430				1.2				1.6			1.7	1.7		2.0
0600	1.0			1.3				1.7				1.8		2.1
0730	1.1			1.3			1.3	1.7			1.7	1.8		
0900	1.2			1.2			1.4	1.9	2.3		1.8	1.9		
1030	1.1		1.0					2.0	2.2					
1200			1.1		1.3			2.1						
1330					1.2			2.2						
1500			1.1						2.2		1.8			
1630			1.2				1.4		2.1		1.7	1.9		
1800							1.5	2.2				2.0		2.1
1930					1.2			2.3	2.1			2.1		2.2
2100					1.3			2.2	2.0			2.1		
2230									1.9			2.0		
2400	1.1	1.0	1.2	1.2	1.3	1.3	1.5	2.2	1.8	1.6	1.7	2.0	2.0	2.2

LAKE MICHIGAN, STATION 7, 15 m continued.

DATE	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5
TIME														
0130	2.2	2.2	2.2	2.1	1.9	1.7	1.7	1.6	1.4	1.4	1.4			
0300					1.8									
0430				2.1	1.7									
0600				2.2										
0730								1.6						
0900				2.2				1.5						
1030				2.1		1.7	1.7	1.4			1.4			
1200				2.0		1.8	1.6							
1330					1.7	1.7								
1500					1.6	1.8				1.4				
1630							1.6			1.5				
1800						1.8	1.7							
1930			2.2			1.9								
2100			2.3			1.8								
2230			2.3	2.0	1.6									
2400	2.2	2.2	2.2	1.9	1.7	1.8	1.7	1.4	1.4	1.5				

End of
Record

LAKE MICHIGAN - STATION 8. Depth 10 m.

Start 24 November 1963, 1000 CST; end 10 April 1964, 1712 CST.

Instrument serial no. 122, film record 20,042. Initial cal. Indet.; final cal. Indet.

DATE	11-24	11-25	11-26	11-27	11-28	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7
TIME														
0130		9.6	9.3	9.1	9.0	9.0	8.5	8.0	8.1	8.0	8.0	8.1	7.8	7.8
0300				9.1			8.4						7.7	
0430			9.3	9.0			8.4		8.1				7.6	7.8
0600		9.6	9.2				8.3	8.0	8.0				7.6	7.9
0730		9.5	9.1				8.2	8.1					7.5	8.0
0900		9.4					8.1	8.2		8.0		8.1		
1030	10.0	9.3	9.1		9.0	9.0	8.0	8.3		8.1		8.2		
1200		9.2	9.2		9.1	8.9				8.1			7.5	
1330		9.1	9.1			8.8				8.0		8.2	7.6	
1500				9.0	9.1		8.0	8.3				8.1	7.7	
1630	10.0			8.9	9.0		8.1	8.2				8.0	7.8	
1800	9.9		9.1				8.2	8.1	8.0		8.0	8.0		
1930	9.8		9.2				8.3		8.1		8.1	7.9		
2100	9.6	9.1		8.9		8.8	8.2							8.0
2230		9.2	9.2	9.0		8.7	8.1							7.9
2400	9.6	9.3	9.1	9.0	9.0	8.6	8.1	8.1	8.1	8.0	8.1	7.9	7.8	7.9

LAKE MICHIGAN, STATION 8, 10 m continued.

DATE TIME	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21
0130	7.9	7.1	6.9	6.6	6.5	6.1	6.0	5.8	5.5	5.2	5.2	5.3	5.0	5.0
0300	7.9		6.8											
0430	7.7	7.1	6.7		6.5				5.5	5.2	5.2			
0600	7.6	7.0	6.7		6.4				5.3	5.1	5.3			
0730	7.5		6.6			6.1						5.3		
0900	7.4					6.0						5.2		
1030	7.3				6.4									
1200	7.3	7.0			6.3									
1330	7.2	6.9					6.0					5.2		
1500	7.1						5.9	5.8				5.0		
1630					6.3			5.7						
1800					6.2			5.7						
1930	7.1			6.6				5.6	5.3					5.0
2100	7.2			6.5	6.2		5.9		5.2	5.1				4.9
2230					6.1		5.8	5.6		5.2				
2400	7.2	6.9	6.6	6.5	6.1	6.0	5.8	5.5	5.2	5.2	5.3	5.0	5.0	4.9

DATE TIME	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4
0130	4.9	4.9	4.9	4.8	4.8	4.6	4.5	4.4	4.3	4.2	4.0	4.0	4.0	4.0
0300														
0430					4.8									
0600					4.7									
0730							4.5							
0900							4.4		4.3	4.2				
1030									4.2	4.1				
1200					4.7									
1330					4.6	4.6								
1500			4.9			4.5								
1630			4.8											
1800								4.4		4.1				
1930								4.3		4.0				
2100														
2230														
2400	4.9	4.9	4.8	4.8	4.6	4.5	4.4	4.3	4.2	4.0	4.0	4.0	4.0	4.0

DATE TIME	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18
0130	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.2	3.1	3.2	3.2	3.1	3.0
0300								3.8						
0430								3.7						
0600								3.7	3.2				3.1	
0730								3.6	3.1				3.0	
0900								3.5						
1030										3.1				
1200								3.5		3.2				
1330								3.4						
1500							4.0							
1630							3.9	3.4						
1800								3.3				3.2		
1930								3.3				3.1		
2100								3.2						
2230														
2400	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.2	3.1	3.2	3.2	3.1	3.0	3.0

LAKE MICHIGAN, STATION 8, 10 m continued.

DATE	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1
TIME														
0130	3.0	3.0	3.1	3.1	3.0	3.0	3.1	3.0	3.0	2.9	2.9	3.0	2.9	2.8
0300														2.7
0430				3.1										2.6
0600				3.0		3.0								2.6
0730		3.0				3.1								2.5
0900		3.1						3.0	3.0					
1030								3.1	2.9		2.9			2.5
1200											3.0			2.4
1330							3.1							2.4
1500							3.0						2.9	2.3
1630								3.1					2.8	
1800								3.0						
1930														
2100												3.0		2.3
2230												2.9		2.2
2400	3.0	3.1	3.1	3.0	3.0	3.1	3.0	3.0	2.9	2.9	3.0	2.9	2.8	2.2
DATE	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15
TIME														
0130	2.2	2.0	2.0	2.1	2.3	2.4	2.6	2.7	2.6	2.5	2.5	2.6	2.6	2.6
0300	2.1													
0430				2.1	2.3									
0600				2.2	2.4			2.7		2.5				
0730					2.5			2.6		2.4				
0900			2.0		2.6				2.6					
1030			2.1	2.2	2.7				2.5		2.5			
1200				2.3	2.6						2.6			
1330					2.5									
1500					2.5									
1630					2.4									2.6
1800	2.1					2.4	2.6							2.7
1930	2.0					2.5	2.7							
2100						2.6				2.4				
2230										2.5				
2400	2.0	2.0	2.1	2.3	2.4	2.6	2.7	2.6	2.5	2.5	2.6	2.6	2.6	2.7
DATE	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	2-29
TIME														
0130	2.7	2.7	2.6	2.8	2.4	2.3	2.4	2.3	2.4	2.3	2.2	2.2	2.2	2.3
0300										2.3				
0430										2.2				
0600				2.8			2.4							
0730		2.7	2.6	2.7			2.3	2.3						
0900		2.6	2.7			2.3		2.4	2.4				2.2	
1030			2.8			2.4			2.3				2.3	
1200				2.7										
1330				2.6										
1500														
1630					2.6									
1800					2.5									
1930														
2100						2.4								
2230				2.5	2.3									
2400	2.7	2.6	2.8	2.4	2.3	2.4	2.3	2.4	2.3	2.2	2.2	2.2	2.3	2.3

LAKE MICHIGAN, STATION 8, 10 m continued.

DATE	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14
TIME														
0130	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.1	2.1	2.1	2.1	2.2
0300					2.1	2.2								
0430			2.2			2.1			2.2					
0600			2.1				2.2	2.3	2.1					
0730							2.3	2.2						
0900					2.1									
1030		2.3			2.2									
1200		2.2												
1330														
1500					2.2								2.1	
1630			2.1		2.3								2.2	
1800			2.2			2.1								
1930						2.2								
2100														
2230					2.3									
2400	2.3	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.1	2.1	2.1	2.1	2.2	2.2
DATE	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28
TIME														
0130	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.3	2.3	2.2			
0300														
0430						2.3								
0600						2.2								
0730					2.2									
0900					2.3									
1030								2.2						
1200								2.3						
1330														
1500														
1630														
1800														
1930											2.2			
2100											End 1900 CST			
2230														
2400	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.3	2.3	2.3				

LAKE MICHIGAN - STATION 8. Depth 22 m.

Start 24 November 1963, 1000 CST; end 10 April 1964, 1712 CST.

Instrument serial no. 112, film record 20,041. Initial cal. 0°C; final cal. 0.5°C.

DATE	11-24	11-25	11-26	11-27	11-28	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7
TIME														
0130		9.0	8.9	8.9	8.4	8.5	8.1	7.9	7.9	7.8	7.4	7.6	7.2	7.1
0300				8.8			8.0			7.7		7.7	7.1	
0430				8.7						7.6			7.1	
0600				8.6	8.4					7.4			7.0	
0730			8.9	8.5	8.5	8.5		7.9	7.9	7.5		7.7		
0900			8.8		8.6	8.4		8.0	7.8		7.4	7.8		7.1
1030	9.1	9.0				8.4	8.0		7.8		7.3	7.8		7.3
1200	9.2	8.9				8.3	7.9		7.7		7.3	7.7		
1330									7.6		7.2			
1500											7.2			
1630	9.2		8.8			8.3	7.9				7.3	7.7		
1800	9.1		8.9			8.2	8.0		7.6		7.4	7.6		
1930	9.0							8.0	7.7			7.3		7.3
2100								7.9	7.8			7.2		7.2
2230						8.2	8.0				7.4		7.0	
2400	9.0	8.9	8.9	8.5	8.6	8.1	7.9	7.9	7.8	7.5	7.5	7.2	7.1	7.2
DATE	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21
TIME														
0130	7.1	6.9	6.1	6.0	6.0	5.8	5.5	5.1	4.9	4.7	4.8	4.9	4.0	4.0
0300						5.8	5.3							
0430	7.1					5.7					4.8	4.9		
0600	7.0		6.1								4.9	4.8		
0730		6.9	6.0		6.0							4.8		
0900		6.8			5.9							4.7		
1030												4.7		
1200		6.8										4.6		
1330	7.0	6.6										4.5		
1500	6.9	6.3										4.0		
1630						5.7		5.0						
1800		6.3				5.6	5.3			4.7				
1930		6.2					5.2			4.8				
2100		6.2			5.9				4.9					
2230		6.1			5.8		5.2		4.8					
2400	6.9	6.1	6.0	6.0	5.8	5.6	5.1	5.0	4.7	4.8	4.9	4.0	4.0	4.0
DATE	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4
TIME														
0130	4.0	4.0	4.0	4.1	4.1	4.0	4.0	3.8	3.5	3.3	3.0	3.0	3.0	3.1
0300									3.5					
0430								3.8	3.4					
0600					4.1			3.7		3.3				
0730					4.0					3.2				
0900							4.0		3.4					
1030							3.9	3.7	3.3	3.2				
1200								3.6		3.1				
1330										3.1				
1500										3.0				
1630													3.0	
1800				4.1			3.9	3.6					3.1	
1930				4.0			3.8	3.5						
2100														
2230														
2400	4.0	4.0	4.0	4.0	4.0	4.0	3.8	3.5	3.3	3.0	3.0	3.0	3.1	3.1

LAKE MICHIGAN, STATION 8, 22 m continued.

DATE	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18
TIME														
0130	3.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.7	2.6	2.7	2.6	2.6	2.5
0300														
0430								2.9						
0600								2.8	2.7					
0730									2.6				2.6	
0900													2.5	
1030														
1200														
1330	3.0													
1500	2.9													
1630								2.8			2.7			
1800								2.7			2.6			
1930										2.6				
2100										2.7				
2230														
2400	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.7	2.6	2.7	2.6	2.6	2.5	2.5
DATE	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1
TIME														
0130	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.2	2.2	2.0	2.0	2.1	2.0	1.9
0300														
0430														
0600														1.9
0730									2.2				2.0	1.8
0900									2.1				1.9	
1030				2.4										
1200				2.3										
1330														1.8
1500														1.7
1630							2.3			2.0		2.1		
1800							2.2		2.1	2.1	2.0	2.0		
1930									2.0		2.1			
2100														1.7
2230														1.6
2400	2.4	2.4	2.3	2.3	2.3	2.3	2.2	2.2	2.0	2.1	2.1	2.0	1.9	1.6
DATE	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15
TIME														
0130	1.6	1.1	1.0	1.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9
0300	1.5													
0430	1.4			1.6										
0600	1.3			1.7						1.8				
0730										1.7				1.9
0900						1.8								1.8
1030	1.3		1.0			1.7								
1200	1.2		1.1											
1330			1.3											
1500			1.4											
1630		1.1	1.5				1.7							
1800		1.0	1.6			1.7	1.8							
1930												1.8		
2100	1.2									1.7		1.9		
2230	1.1									1.8				
2400	1.1	1.0	1.6	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.8

LAKE MICHIGAN, STATION 8, 22 m continued.

DATE	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	2-29
TIME														
0130	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.4	1.4	1.5	1.6
0300														
0430										1.6				
0600										1.5		1.4		
0730										1.4		1.5		
0900													1.5	
1030													1.6	1.6
1200														1.7
1330														
1500									1.7					
1630									1.6					
1800														
1930														
2100														
2230														
2400	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.4	1.4	1.5	1.6	1.7
DATE	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14
TIME														
0130	1.7	1.6	1.3	1.1	1.1	1.4	1.4	1.5	1.5	1.3	1.1	1.0	1.0	1.1
0300			1.2											
0430		1.6	1.2			1.4			1.5					1.1
0600	1.7	1.5	1.1			1.3			1.4	1.3	1.1			1.2
0730	1.6						1.4			1.2	1.0			
0900					1.1		1.5							
1030		1.5			1.2								1.0	1.2
1200		1.4					1.5						1.1	1.3
1330							1.6		1.4					
1500					1.2			1.3	1.2					
1630					1.3				1.1					
1800						1.3								
1930						1.4								
2100		1.4			1.4									1.3
2230		1.3												1.4
2400	1.6	1.3	1.1	1.1	1.4	1.4	1.6	1.5	1.3	1.1	1.0	1.0	1.1	1.4
DATE	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28
TIME														
0130	1.4	1.5	1.5	1.4	1.3	1.5	1.5	1.5	1.5	1.6	1.6	1.5	1.6	1.6
0300														
0430														
0600			1.5		1.3				1.5					
0730			1.4	1.4	1.4				1.6					
0900				1.3										
1030											1.6			
1200											1.5			
1330														
1500	1.4													
1630	1.5													
1800														
1930														
2100					1.4							1.5		
2230					1.5							1.6		
2400	1.5	1.5	1.4	1.3	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6

LAKE MICHIGAN, STATION 8, 22 m continued.

DATE TIME	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11
0130	1.5	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4			Unreadable	
0300														
0430														
0600				1.4										
0730				1.3		1.3				1.4			1.3	
0900						1.4								
1030														
1200											Unreadable			
1330												Unreadable		
1500														
1630														
1800	1.5												1.3	
1930	1.4													
2100														
2230														End of record
2400	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4					

LAKE MICHIGAN - STATION 8. Depth 30 m.

Start 24 November 1963, 1000 CST; end 10 April 1964, 1712 CST.

Instrument serial no. 126, film record 20,044. No temperature correction.

DATE TIME	11-24	11-25	11-26	11-27	11-28	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7
0130		9.0	8.9	8.9	8.8	8.9	8.3	8.0	8.0	8.0	8.0	8.0	7.8	7.5
0300													7.6	
0430				8.9			8.3							
0600				8.8			8.2						7.5	7.5
0730						8.9	8.2							7.7
0900						8.8	8.1							7.8
1030	9.2					8.7	8.0							7.9
1200						8.7								
1330						8.6								
1500	9.2					8.6								
1630	9.1	9.0				8.5	8.0					8.0		
1800	9.1	8.9			8.8		8.1					7.9		
1930	9.0				8.9									
2100						8.5	8.1							7.9
2230						8.4	8.0					7.9		7.8
2400	9.0	8.9	8.9	8.8	8.9	8.3	8.0	8.0	8.0	8.0	8.0	7.8	7.5	7.8

LAKE MICHIGAN, STATION 8, 30 m continued.

DATE	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21
TIME														
0130	7.8	7.2	6.9	6.9	6.6	6.2	6.0	5.8	5.5	5.1	5.1	5.3	5.0	4.9
0300	7.8										5.1			
0430	7.6				6.6				5.5		5.2			
0600	7.5	7.2			6.5	6.2			5.4					
0730		7.1				6.1			5.3			5.3		
0900					6.5						5.2	5.2		
1030	7.5	7.1			6.4						5.3			
1200	7.4	7.0				6.1	6.0							
1330	7.3				6.4	6.0	5.9	5.8				5.2		
1500	7.2				6.3			5.7				5.1		
1630								5.6				5.0	5.0	
1800									5.3				4.9	
1930							5.9		5.2					
2100		7.0		6.9	6.3		5.8		5.2					
2230		6.9		6.8	6.2			5.6	5.1					
2400	7.2	6.9	6.9	6.8	6.2	6.0	5.8	5.5	5.1	5.1	5.3	5.0	4.9	4.9
DATE	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4
TIME														
0130	4.9	4.9	4.9	4.9	4.8	4.8	4.7	4.6	4.4	4.0	4.0	4.0	4.0	4.0
0300														
0430														
0600				4.9				4.6						
0730				4.8		4.8		4.5	4.4					
0900						4.7			4.3					
1030														
1200									4.3					
1330								4.5	4.2					
1500								4.4	4.1					
1630														
1800							4.7							
1930							4.6							
2100														
2230									4.1					
2400	4.9	4.9	4.9	4.8	4.8	4.7	4.6	4.4	4.0	4.0	4.0	4.0	4.0	4.0
DATE	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18
TIME														
0130	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0300														
0430														
0600														
0730							3.9							
0900							3.1							
1030							3.0							
1200														
1330														
1500														
1630														
1800						4.0								
1930						3.9								
2100														
2230														
2400	4.0	4.0	4.0	4.0	4.0	3.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

LAKE MICHIGAN, STATION 8, 30 m continued.

DATE	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1
TIME														
0130	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.8	2.8	2.9	2.9	2.8	2.2
0300														2.1
0430													2.8	2.0
0600								3.0				2.9	2.7	
0730								2.9				2.8		
0900													2.7	
1030													2.6	
1200													2.5	
1330										2.8			2.4	
1500								2.9		2.9			2.3	
1630								2.8						
1800														
1930						3.0							2.3	
2100						2.9	3.0						2.2	
2230							2.9							2.0
2400	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.8	2.8	2.9	2.9	2.8	2.2	1.9
DATE	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15
TIME														
0130	2.0	2.0	2.0	2.2	2.1	2.2	2.2	2.3	2.2	2.1	2.2	2.2	2.2	2.2
0300														
0430														
0600			2.0	2.2					2.2					
0730			2.1	2.3					2.1					
0900							2.2	2.3		2.1				
1030							2.3	2.2		2.2				
1200				2.3										
1330				2.2										
1500														
1630														
1800														
1930				2.2	2.1									
2100			2.1	2.1	2.2									
2230			2.2											
2400	2.0	2.0	2.2	2.1	2.2	2.2	2.3	2.2	2.1	2.2	2.2	2.2	2.2	2.2
DATE	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	2-29
TIME														
0130	2.2	2.2	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1
0300				2.2										
0430				2.1										
0600														
0730									2.1					
0900		2.2							2.0					
1030		2.3												
1200														
1330														
1500			2.3											
1630			2.2											
1800														2.1
1930												2.0		2.0
2100												2.1		
2230														
2400	2.2	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.0

LAKE MICHIGAN, STATION 8, 30 m continued.

DATE	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14
TIME														
0130	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
DATE	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28
TIME														
0130	2.0	2.0	2.0	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2
0300														
0430						2.2								
0600						2.1								
0730				2.1									2.2	
0900				2.2								2.1	2.3	
1030												2.2		
1200														
1330														
1500													2.3	
1630													2.2	
1800														
1930			2.0											2.2
2100			2.1											2.1
2230														
2400	2.0	2.0	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1
DATE	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11
TIME														
0130	2.1	2.0	2.0	2.1										
0300														
0430														
0600														
0730														
0900	2.1													
1030	2.0			2.1										
1200				2.0										
1330														
1500			2.0											
1630			2.1											
1800														
1930														
2100														
2230														
2400	2.0	2.0	2.1	2.0	Data ends.									

LAKE MICHIGAN - STATION 8. Depth 60 m.

Start 24 November 1963, 1000 CST; end 10 April 1964, 1712 CST.

Instrument serial no. 127, film record 20,045. Initial cal. 0°C; final cal. 0°C.

DATE	11-24	11-25	11-26	11-27	11-28	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7
TIME														
0130		4.9	4.9	4.9	4.8	4.8	4.9	6.0	5.0	5.0	4.9	7.0	4.9	7.7
0300				5.0				4.9	5.1	5.1		7.5	4.9	7.7
0430				4.9					5.2	5.3	4.9	8.0	5.0	7.0
0600							4.9	4.9	5.1	5.1	5.0		6.9	6.9
0730				4.9			5.0	5.7	5.2	5.4			6.8	7.6
0900				4.8			4.9	4.9	4.9	5.0	5.0		6.0	7.7
1030	4.9					4.8		4.9		4.9	5.5		5.4	7.8
1200						4.9		5.2		5.0	6.5	8.0	5.4	
1330						5.0	4.9	6.5		4.9	6.9	6.9	5.0	
1500						4.9	5.1	6.3				6.3	5.0	
1630							5.5	5.8			6.9	6.6	5.8	7.8
1800							5.0	5.1			5.8	5.3	7.2	7.2
1930						4.9	6.2	5.0			6.0	5.3	7.7	7.6
2100						4.8	7.2				5.9	5.0		7.8
2230						4.8	7.3				5.8	4.9		7.8
2400	4.9	4.9	4.9	4.8	4.8	4.9	7.3	5.0	4.9	4.9	7.0	4.9	7.7	7.3

DATE	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21
TIME														
0130	7.5	7.2	6.8	6.3	5.6	6.0	5.8	5.9	5.7	5.5	5.5	5.6	5.1	5.1
0300	7.1	7.2	6.0	6.7	5.9	6.1	5.9							
0430	7.0	7.0	5.4	6.0	6.3	6.1	6.0		5.7			5.6		
0600	5.4	6.0	5.5	5.5	6.5	6.0	5.8		5.6			5.5		
0730	6.2	6.9	5.3	5.6	6.5	5.5	5.9				5.5			
0900	5.6	7.0	6.2	5.5	6.0	6.0	5.8	5.9			5.6			
1030	6.2	7.0	6.8	5.6	6.0	6.0	5.9	5.8						
1200	7.0	6.3	6.7	5.4	6.2	5.7	6.0					5.5		
1330	7.0	6.0	6.9	6.1	6.2	5.5	6.0					5.4		
1500	7.2	6.2	6.3	6.4	6.0	5.6	5.9		5.6			5.3		
1630	7.0	6.2	6.0	6.9	6.2	5.7	5.8		5.5			5.1		
1800	7.0	6.1	6.0		6.1	5.8	5.9	5.8						
1930	5.8	6.7	6.1	6.9	6.0	5.5		5.7						
2100	7.2	6.8	6.6	6.3	6.1	5.3								
2230		5.5	6.5	5.6	5.7	5.5								
2400	7.2	6.2	6.9	5.6	6.0	5.4	5.9	5.7	5.5	5.5	5.6	5.1	5.1	5.1

DATE	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4
TIME														
0130	5.1	5.1	5.1	5.1	5.1	5.0	5.0	5.0	5.0	4.9	4.5	4.4	4.3	4.2
0300														
0430														
0600														
0730														
0900									5.0	4.9		4.4		
1030									4.9	4.8		4.3		
1200										4.7				
1330														
1500					5.1					4.7				
1630					5.0					4.6				
1800										4.6	4.5			
1930				5.1						4.5	4.4		4.3	
2100				5.0									4.2	
2230														
2400	5.1	5.1	5.1	5.0	5.0	5.0	5.0	5.0	4.9	4.5	4.4	4.3	4.2	4.2

LAKE MICHIGAN, STATION 8, 60 m continued.

DATE	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18
TIME														
0130	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.1	4.0	4.0	4.0	4.0	3.9	3.9
0300														
0430														
0600														
0730								4.1						3.9
0900								4.0						3.8
1030														
1200														
1330							4.2							
1500							4.1							
1630														
1800												4.0		
1930												3.9		
2100													3.9	
2230													3.8	
2400	4.2	4.2	4.2	4.2	4.2	4.2	4.1	4.0	4.0	4.0	4.0	3.9	3.8	3.8
DATE	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1
TIME														
0130	3.8	3.8	3.9	3.8	3.8	3.8	3.8	3.4	3.3	3.0	3.0	3.2	3.2	3.1
0300														
0430													3.2	
0600			3.9						3.3				3.1	3.1
0730			3.8						3.2					3.0
0900														
1030		3.8									3.0			
1200		3.9									3.1			
1330							3.8		3.1					
1500							3.7		3.1		3.1			
1630							3.6		3.0		3.2			
1800							3.5							
1930							3.4							
2100							3.4							
2230							3.5					3.1	3.1	3.0
2400	3.8	3.9	3.8	3.8	3.8	3.8	3.5	3.4	3.0	3.0	3.2	3.1	3.2	2.9
DATE	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15
TIME														
0130	2.9	2.8	2.9	3.0	3.0	2.9	3.0	3.0	3.1	3.0	3.0	3.0	3.0	3.0
0300														
0430	2.9													
0600	2.8		2.9											
0730			3.0											
0900														
1030								3.0						
1200								3.1						
1330		2.8			3.0				3.1					
1500		2.9			2.9				3.0					
1630														
1800														
1930						2.9								
2100						3.0								
2230														
2400	2.8	2.9	3.0	3.0	2.9	3.0	3.0	3.1	3.0	3.0	3.0	3.0	3.0	3.0

LAKE MICHIGAN, STATION 8, 60 m continued.

DATE	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	2-29
TIME														
0130	3.0	3.0	3.0	3.0	2.9	2.8	3.0	2.9	2.9	2.8	2.8	2.8	2.8	2.8
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500				3.0		2.8								
1630				2.9		2.9								
1800					2.9				2.9					
1930					2.8				2.8					
2100						2.9								
2230						3.0	3.0							
2400	3.0	3.0	3.0	2.9	2.8	3.0	2.9	2.9	2.8	2.8	2.8	2.8	2.8	2.8
DATE	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14
TIME														
0130	2.8	2.7	2.6	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4
0300														
0430														
0600			2.6											
0730		2.7	2.5											
0900		2.6												
1030														
1200														
1330														
1500	2.8													
1630	2.7													
1800														
1930														
2100														
2230														
2400	2.7	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4
DATE	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28
TIME														
0130	2.4	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.7	2.7	2.6	2.6	2.8
0300														
0430														
0600					2.5								2.6	
0730					2.6								2.7	
0900											2.7			
1030											2.6			2.8
1200														2.9
1330	2.4													
1500	2.5													
1630														2.9
1800									2.6					2.8
1930									2.7					
2100														
2230														
2400	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.7	2.7	2.6	2.6	2.7	2.8

LAKE MICHIGAN, STATION 8, 60 m continued.

DATE	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11
TIME														
0130	2.8	2.8	2.7	2.7										
0300														
0430														
0600				2.7										
0730		2.8												
0900		2.7		Data ends.										
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	2.8	2.7	2.7											

LAKE MICHIGAN - STATION 8. Depth 90 m.

Start 24 November 1963, 1000 CST; end 10 April 1964, 1712 CST.

Instrument serial no. 349, film record 20,046. Initial cal. Indet.; final cal. 0°C.

DATE	11-24	11-25	11-26	11-27	11-28	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7
TIME														
0130		4.0	4.0	4.0	3.9	3.9	3.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0
0300														
0430														
0600				4.0										
0730				3.9			3.9					4.0		
0900							4.0					4.1		
1030	4.0											4.2		
1200												4.1		
1330						3.9						4.1		
1500						4.0						4.0		
1630														
1800		4.0												
1930		3.9												
2100			4.0			4.0								
2230			3.9			3.9								
2400	4.0	3.9	3.9	3.9	3.9	3.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

LAKE MICHIGAN, STATION 8, 90 m continued.

DATE	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21
TIME														
0130	4.0	4.0	4.0	4.0	4.0	4.0	3.9	4.0	4.1	4.8	4.9	5.0	4.5	4.3
0300														
0430							3.9		4.1		4.9			
0600							4.0		4.2		5.0			
0730									4.3					
0900									4.7	4.8				
1030										4.9				
1200		4.0										5.0		
1330		4.1							4.7			4.9		
1500									4.8			4.7		
1630												4.6		
1800						4.0								
1930		4.1				3.9							4.5	
2100		4.0										4.6	4.3	
2230												4.5		
2400	4.0	4.0	4.0	4.0	4.0	3.9	4.0	4.0	4.8	4.9	5.0	4.5	4.3	4.3
DATE	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4
TIME														
0130	4.2	4.2	4.3	4.2	4.2	4.2	4.1	4.0	4.0	4.0	3.8	3.8	3.7	3.5
0300												3.8		
0430						4.2						3.7		
0600						4.1								
0730														
0900							4.1							
1030							4.0							
1200										4.0				
1330	4.2									3.9				
1500	4.3										3.8			
1630											3.9	3.7	3.7	
1800												3.8	3.6	
1930	4.3									3.9	3.9			
2100	4.2									3.8	3.8	3.8		
2230												3.7	3.6	
2400	4.2	4.2	4.3	4.2	4.2	4.1	4.0	4.0	4.0	3.8	3.8	3.7	3.5	3.5
DATE	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18
TIME														
0130	3.5	3.5	3.5	3.7	3.6	3.6	3.5	3.2	3.0	3.0	3.0	3.0	3.0	2.9
0300														
0430								3.2						
0600								3.1						
0730														
0900				3.7										
1030				3.6				3.5					3.0	
1200								3.4					2.9	
1330														
1500														
1630				3.5				3.4						
1800				3.6				3.3						
1930														
2100														
2230														
2400	3.5	3.5	3.6	3.6	3.6	3.6	3.3	3.1	3.0	3.0	3.0	3.0	2.9	2.9

LAKE MICHIGAN, STATION 8, 90 m continued.

DATE	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1
TIME														
0130	2.9	2.9	2.9	2.9	2.9	2.9	3.0	2.9	2.9	2.5	2.6	2.8	2.8	2.8
0300									2.9					
0430									2.8		2.6			
0600									2.7		2.7			2.8
0730											2.8			2.7
0900						2.9								
1030						3.0								
1200									2.7					2.7
1330									2.6					2.6
1500							3.0			2.5				
1630							2.9			2.6				
1800							2.8							2.6
1930														2.5
2100														
2230									2.6					
2400	2.9	2.9	2.9	2.9	2.9	3.0	2.8	2.9	2.5	2.6	2.8	2.8	2.8	2.5
DATE	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15
TIME														
0130	2.5	2.6	2.6	2.8	2.9	2.9	2.7	2.6	2.8	2.6	2.5	2.9	2.7	2.8
0300					2.8		2.8							
0430							2.8						2.7	
0600			2.6		2.8		2.7						2.8	
0730			2.7		2.9		2.6			2.6				
0900			2.8				2.5			2.5				2.8
1030	2.5					2.9		2.6			2.5			2.7
1200	2.6					2.8		2.7			2.8			2.8
1330						2.7					2.9			
1500				2.8		2.8	2.5					2.9		
1630				2.9		2.9	2.6					2.7		
1800								2.7						
1930			2.8					2.8						
2100			2.7											
2230			2.8			2.9								
2400	2.6	2.6	2.8	2.9	2.9	2.8	2.6	2.8	2.8	2.5	2.9	2.7	2.8	2.8
DATE	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	2-29
TIME														
0130	2.7	2.5	2.7	2.7	2.3	2.2	2.4	2.5	2.3	2.1	2.1	2.1	2.1	2.1
0300														
0430	2.7			2.7										
0600	2.6			2.6				2.5						
0730					2.3		2.4	2.4						
0900					2.2		2.5	2.5						
1030								2.5						
1200								2.6						
1330				2.6										
1500				2.5										
1630	2.6					2.2					2.1			
1800	2.5			2.5		2.4			2.3		2.2			
1930				2.4					2.2					
2100		2.5		2.4				2.6						
2230		2.6		2.3				2.5						
2400	2.5	2.7	2.7	2.3	2.2	2.4	2.5	2.4	2.2	2.1	2.2	2.1	2.1	2.1

LAKE MICHIGAN, STATION 8, 90 m continued.

DATE	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14
TIME														
0130	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
0300														
0430														2.0
0600														1.9
0730														
0900														1.9
1030						2.0								2.0
1200			2.0			1.9								
1330			1.9											
1500														
1630						1.9								
1800						2.0								
1930	2.1		1.9											
2100	2.0		2.0											
2230														
2400	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
DATE	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28
TIME														
0130	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1
0300														
0430														
0600						2.1								
0730						2.0								
0900														2.1
1030													2.0	2.2
1200													2.1	
1330														
1500					2.0									
1630					2.1									
1800														
1930														
2100														
2230														
2400	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2
DATE	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11
TIME														
0130	2.2	2.2	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1				
0300	2.2													
0430	2.1	2.2												
0600		2.1			2.1			2.1						
0730	2.1				2.0			2.2						
0900	2.2													
1030							2.1							
1200							2.2							
1330														
1500														
1630														
1800						2.0	2.2			2.1				
1930						2.1	2.1	2.2						
2100								2.1						
2230														
2400	2.2	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1					

Data ends.

LAKE MICHIGAN - STATION 10. Depth 10 m.

Start 25 November 1963, 1600 CST; end 15 April 1964, 0900 CST.

Instrument serial no. 252, film record 20,050. Initial cal. 0°C; final cal. -0.7°C.

DATE	11-25	11-26	11-27	11-28	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8
TIME														
0130		9.0	9.0	8.9	8.9	9.0	8.8	8.7	8.2	8.0	7.9	7.8	7.1	7.4
0300								8.7					7.1	
0430								8.6					7.0	
0600					8.9							7.8		7.4
0730					8.8		8.8	8.6				7.6		7.3
0900							8.9	8.5				7.5	7.0	7.3
1030											7.9	7.1	7.1	7.0
1200					8.8			8.5				7.8	7.1	7.2
1330					8.9			8.4				7.0	7.3	6.8
1500						9.0	8.9	8.4					7.3	6.8
1630	9.0					8.9	8.8	8.3					7.4	6.7
1800					8.9				8.2					6.5
1930					9.0				8.1					6.4
2100			9.0			8.9			8.0	8.0				6.3
2230			8.9			8.8			8.1	7.9		7.0		6.3
2400	9.0	9.0	8.9	8.9	9.0	8.8	8.8	8.3	8.0			7.1	7.4	6.2
DATE	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22
TIME														
0130	6.2	6.2	6.1	6.0	5.5	5.4	5.7	5.2	5.1	5.1	5.1	5.1	4.9	4.4
0300	6.2													
0430	6.1	6.2	6.1											4.4
0600		6.6	6.2											4.3
0730	6.1	6.8			5.5		5.7							
0900	6.0	6.8					5.6							
1030	6.0	6.6					5.5						4.9	
1200	6.1	6.4	6.2	6.0			5.5						4.8	
1330		6.1	6.1	5.9		5.4	5.4							4.3
1500		6.1		5.8		5.5	5.3							4.2
1630	6.1	6.0		5.7		5.6	5.1	5.2				5.0		
1800	6.2			5.6	5.5	5.7						4.9	4.8	
1930				5.5	5.4	5.8		5.1					4.7	
2100			6.1										4.6	
2230		6.0	6.0			5.8							4.5	
2400	6.2	6.1	6.0	5.5	5.4	5.7	5.1	5.1	5.1	5.1	5.1	4.9	4.4	4.2
DATE	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5
TIME														
0130	4.2	4.1	4.1	4.1	4.1	3.8	3.4	3.2	3.1	3.1	3.1	3.1	3.1	3.1
0300														
0430							3.4							
0600						3.8	3.3	3.2						
0730						3.7	3.3	3.1						
0900							3.2							
1030														
1200						3.7								
1330						3.6								
1500	4.2				4.1	3.5								
1630	4.1				4.0	3.5								
1800						3.4								
1930					4.0									
2100					3.9									
2230														
2400	4.1	4.1	4.1	4.1	3.9	3.4	3.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1

LAKE MICHIGAN, STATION 10, 10 m continued.

DATE	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19
TIME														
0130	3.2	3.2	3.2	3.0	3.0	2.9	2.7	2.6	2.3	2.3	2.3	2.3	2.3	2.3
0430														
0600						2.9								
0730			3.2			2.8		2.6						
0900			3.1					2.5						
1030					3.0									
1200					2.9									
1330						2.8								
1500						2.7								
1630							2.7							
1800							2.6							
1930														
2100			3.1					2.5						
2230			3.0					2.4						
2400	3.2	3.2	3.0	3.0	2.9	2.7	2.6	2.3	2.3	2.3	2.3	2.3	2.3	2.3
DATE	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2
TIME														
0130	2.4	2.4	2.4	2.5	2.6	2.6	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.2
0300						2.6								
0430						2.5								2.2
0600						2.5								2.3
0730				2.5		2.4								
0900				2.6										
1030														
1200														
1330														
1500													2.3	
1630			2.4										2.2	
1800			2.5											
1930							2.4				2.3			
2100							2.3				2.4			
2230														
2400	2.4	2.4	2.5	2.6	2.6	2.4	2.3	2.3	2.3	2.3	2.4	2.3	2.2	2.3
DATE	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16
TIME														
0130	2.4	2.4	2.3	2.3	2.0	1.5	2.1	2.3	2.3	1.5	2.4	2.3	1.5	2.2
0300					1.8		2.2							
0430					1.6		2.2					2.3		
0600					1.6	1.5	2.3					2.2		
0730					1.5	1.6			2.3	1.5		2.1		2.2
0900									2.2	1.8		2.0		2.1
1030						1.6			2.1	1.8		1.8		
1200						1.7			2.0	1.9		1.6	1.5	2.1
1330										2.0		1.6	1.6	2.0
1500									2.0	2.1		1.5	1.7	2.0
1630						1.7			1.9	2.1			1.8	1.9
1800		2.4				1.8			1.8	2.2			1.9	
1930		2.3							1.7		2.4		2.0	1.9
2100				2.3		1.8			1.6	2.2	2.3		2.1	1.8
2230				2.2		1.9			1.5	2.3			2.2	1.8
2400	2.4	2.3	2.3	2.1	1.5	2.0	2.3	2.3	1.5	2.3	2.3	1.5	2.2	1.7

LAKE MICHIGAN, STATION 10, 10 m continued.

DATE	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	2-29	3-1
TIME														
0130	1.8	1.6	1.0	1.6	2.0	1.9	1.8	1.6	1.7	1.7	1.7	1.7	1.9	1.9
0300			0.9											
0430		1.6	0.8											
0600	1.8	1.5	0.7				1.8					1.7		
0730	1.7	1.5	0.6	1.6			1.7					1.8		
0900		1.4	0.6	1.7				1.6						
1030			0.5					1.7						
1200		1.4		1.7										1.9
1330		1.3		1.8		1.9								2.1
1500	1.7		0.5		2.0	1.8								
1630	1.6		0.6	1.8	1.9									
1800			0.6	1.9			1.7							
1930		1.3	0.7				1.6							
2100		1.4	1.1	1.9										
2230		1.3	1.3	2.0										
2400	1.6	1.1	1.5	2.0	1.9	1.8	1.6	1.7	1.7	1.7	1.7	1.8	1.9	2.1
DATE	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15
TIME														
0130	2.3	2.5	2.4	2.3	2.5	2.0	2.0	1.9	1.9	2.0	2.2	2.2	2.0	2.0
0300														
0430	2.3													
0600	2.4				2.5				1.9	2.0				
0730				2.3	2.4				2.0	2.1				
0900				2.4	2.4		2.0					2.2		
1030					2.3		1.9					2.1		
1200					2.2									
1330					2.2									
1500					2.1			1.9						
1630	2.4	2.4	2.3					2.0						2.0
1800	2.5				2.1							2.1		1.9
1930				2.4	2.0					2.1		2.0		
2100				2.5						2.2				
2230														
2400	2.5	2.4	2.3	2.5	2.0	2.0	1.9	2.0	2.0	2.2	2.2	2.0	2.0	1.9
DATE	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29
TIME														
0130	2.0	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.6	1.7	1.8	2.0
0300														
0430														
0600		1.9							1.8					
0730	2.0	1.8				1.8			1.7					
0900	1.9					1.7					1.6			2.0
1030											1.7			
1200											1.6			
1330						1.7								
1500						1.8								
1630														
1800														
1930														
2100													1.8	
2230													1.9	
2400	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.6	1.7	1.7	1.9	

Data
ends.

LAKE MICHIGAN - STATION 10. Depth 15 m.

Start 25 November 1963, 1600 CST; end 15 April 1964, 0900 CST.

Instrument serial no. 234, film record 20,051. Initial cal. 0°C; final cal. 0°C.

DATE	11-25	11-26	11-27	11-28	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8
TIME														
0130		9.4	9.4	9.5	9.5	9.4	9.2	9.1	9.0	8.8	8.8	8.4	8.0	8.0
0300														
0430														
0600											8.8	8.4		
0730											8.7	8.3		
0900					9.5						8.6	8.1		
1030					9.4						8.5	8.0		8.0
1200								9.1						7.9
1330								9.0						
1500						9.4			9.0					
1630	9.3					9.3			8.9					7.9
1800	9.4								8.8					7.8
1930			9.4											7.6
2100			9.5			9.3					8.5			7.5
2230						9.2					8.4			7.4
2400	9.4	9.4	9.5	9.5	9.4	9.2	9.2	9.0	8.8	8.8	8.4	8.0	8.0	7.4

DATE	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22
TIME														
0130	7.3	7.2	7.0	7.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.9
0300														
0430	7.3									6.0				5.9
0600	7.2									5.9				5.8
0730	7.1													
0900				7.0						5.9			6.0	
1030				6.9						6.0			5.9	
1200														5.8
1330														5.7
1500														5.6
1630														
1800		7.2		6.9										
1930		7.1		6.7										
2100		7.0		6.5										
2230				6.3										
2400	7.1	7.0	7.0	6.1	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.9	5.6

DATE	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5
TIME														
0130	5.5	5.4	5.0	5.0	5.0	4.7	4.2	4.0	4.0	3.9	3.9	3.8	3.8	3.8
0300						4.7								
0430	5.5					4.6								
0600	5.4					4.5								
0730											3.9			
0900											3.8			
1030														
1200									4.0					
1330						4.5			3.9					
1500						4.4								
1630									3.9					
1800						4.4	4.2		4.0					
1930		5.4				4.3	4.1							
2100		5.3			5.0				4.0					
2230		5.1			4.9	4.3	4.1		3.9					
2400	5.4	5.0	5.0	5.0	4.8	4.2	4.0	4.0	3.9	3.9	3.8	3.8	3.8	3.8

LAKE MICHIGAN, STATION 10, 15 m continued.

DATE	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19
TIME														
0130	3.8	3.8	3.9	3.9	3.4	3.2	3.2	3.2	3.2	3.1	2.8	2.9	2.9	2.9
0300										3.1				
0430					3.4					3.0				
0600					3.3									
0730														
0900					3.3									
1030					3.2									
1200									3.2	3.0				
1330		3.8							3.1	2.9				
1500		3.9												2.9
1630				3.9							2.8			2.8
1800				3.7							2.9			
1930				3.7										
2100				3.4						2.9				
2230										2.8				
2400	3.8	2.9	3.9	3.4	3.2	3.2	3.2	3.2	3.1	2.8	2.9	2.9	2.9	2.8
DATE	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2
TIME														
0130	2.8	2.8	2.9	2.9	2.9	2.8	2.8	2.8	2.8	2.6	2.3	2.3	2.3	2.3
0300										2.5				
0430														
0600										2.5				
0730					2.9					2.4				
0900					2.8				2.8					
1030									2.7					
1200														
1330														
1500														
1630														
1800									2.7					
1930									2.6					
2100		2.8								2.4				
2230		2.9								2.3				
2400	2.8	2.9	2.9	2.9	2.8	2.8	2.8	2.8	2.6	2.3	2.3	2.3	2.3	2.3
DATE	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16
TIME														
0130	2.3	2.3	2.2	2.2	2.2	2.2	2.2	1.9	1.8	1.8	1.9	1.9	1.8	1.7
0300														
0430										1.8				
0600										1.9				
0730							2.2							
0900		2.3				2.2	2.1							
1030		2.2				2.1	2.0							
1200														
1330						2.1								
1500						2.2	2.0							
1630							1.9	1.9						1.7
1800								1.8						1.8
1930														
2100												1.9	1.8	
2230												1.8	1.7	
2400	2.3	2.2	2.2	2.2	2.2	2.2	1.9	1.8	1.8	1.9	1.9	1.8	1.7	1.8

LAKE MICHIGAN, STATION 10, 15 m continued.

DATE	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	2-29	3-1
TIME														
0130	1.8	1.8	1.8	1.5	1.6	1.6	1.5	1.5	1.5	1.5	1.6	1.5	1.4	1.4
0300			1.8									1.5		
0430			1.7						1.5			1.4		
0600									1.4					1.4
0730														1.5
0900			1.7											
1030			1.6											
1200					1.6	1.6				1.5				1.5
1330					1.5	1.5				1.6	1.6			1.6
1500									1.4		1.5			
1630					1.5				1.5					
1800					1.6									
1930														
2100			1.6											1.6
2230			1.5											1.7
2400	1.8	1.8	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.6	1.5	1.4	1.4	1.7
DATE	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15
TIME														
0130	1.7	1.6	1.4	1.5	1.9	1.8	1.7	1.8						
0300														
0430				1.5										
0600		1.6		1.6										
0730		1.5												
0900								1.8						
1030					1.6			Data ends.						
1200		1.5		1.7										
1330		1.4												
1500	1.7			1.7										
1630	1.6			1.8		1.8								
1800						1.7	1.7							
1930							1.8							
2100					1.9									
2230				1.8	1.8									
2400	1.6	1.4	1.4	1.9	1.8	1.7	1.8							

LAKE MICHIGAN - STATION 10. Depth 22 m.

Start 25 November 1963, 1600 CST; end 15 April 1964, 0900 CST.

Instrument serial no. 279, film record 20,052. Initial cal. 0°C; final cal. -0.2°C.

DATE	11-25	11-26	11-27	11-28	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8
TIME														
0130		9.9	9.9	9.8	9.5	9.8	9.3	9.2	9.0	8.8	8.7	8.3	7.8	8.1
0300							9.2				8.7			8.2
0430				9.8				9.2			8.6			
0600			9.9	9.7	9.5	9.8		9.1			8.5		7.8	8.2
0730			9.8	9.6	9.4	9.9							7.9	8.1
0900				9.5	9.3									
1030				9.2	9.3									
1200				9.2	9.2							8.3		
1330				9.4	9.3						8.5	8.2		8.1
1500				9.4		9.9				8.8	8.4	8.1		7.9
1630	10.0			9.5	9.3	9.8		9.1	9.0	8.7		8.0	7.9	7.8
1800					9.4			9.0	8.9				8.0	7.6
1930					9.6	9.8			8.9		8.4			7.5
2100	10.0				9.7	9.7			8.8		8.3	8.0		7.4
2230	9.9				9.8	9.6						7.9		7.2
2400	9.9	9.9	9.8	9.5	9.8	9.4	9.2	9.0	8.8	8.7	8.3	7.9	8.0	7.2
DATE	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22
TIME														
0130	7.1	7.1	6.8	7.1	6.4	6.1	6.1	6.0	5.9	5.7	5.6	5.5	5.3	5.2
0300					6.2		6.3		5.9				5.3	
0430				7.1	6.1		6.6		5.8	5.7		5.5	5.2	
0600			6.8	7.0			6.7			5.6	5.6	5.4	5.3	5.2
0730			6.9			6.1	6.8	6.0			5.8		5.3	5.1
0900		7.1	7.0			6.0	6.8	5.9			5.7		5.2	
1030		7.0	7.1				6.6		5.8					
1200		7.1					6.5		5.9	5.6	5.7	5.4		
1330	7.1	7.3				6.0	6.4		5.8	5.7	5.6	5.5		
1500	7.0	7.3	7.1	7.0		6.1	6.3		5.7		5.5	5.5		5.1
1630		7.2	7.2	6.9		6.0	6.3			5.7		5.4	5.2	5.0
1800							6.2			5.8		5.5	5.3	
1930		7.2				6.0				5.7	5.5			
2100		7.1				6.1	6.2			5.6	5.6		5.3	
2230	7.0	7.0		6.9			6.1					5.5	5.2	
2400	7.1	6.9	7.2	6.8	6.1	6.1	6.1	5.9	5.7	5.6	5.6	5.4	5.2	5.0
DATE	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5
TIME														
0130	5.0	5.0	4.9	4.9	4.9	4.8	4.2	4.1	4.0	4.0	4.0	4.0	4.0	4.0
0300						4.7								
0430						4.7	4.2							
0600						4.6	4.1	4.1						
0730					4.9			4.0						4.0
0900					4.8									3.9
1030		5.0				4.6								
1200		4.9				4.5								
1330						4.4								
1500														
1630						4.4								
1800						4.3								
1930							4.1							
2100						4.3	4.0				4.0			
2230						4.2					3.9			
2400	5.0	4.9	4.9	4.9	4.8	4.2	4.0	4.0	4.0	4.0	3.9	4.0	4.0	3.9

LAKE MICHIGAN, STATION 10, 22 m continued.

DATE	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19
TIME														
0130	3.9	4.0	4.0	3.9	3.8	3.8	3.6	3.2	3.2	3.1	3.0	3.1	3.1	3.1
0300							3.5							
0430							3.4							
0600	3.9						3.3						3.1	
0730	4.0					3.8	3.2		3.2		3.0		3.0	
0900						3.7			3.1		3.1			
1030								3.2						
1200								3.3						
1330						3.7								3.1
1500						3.6								3.0
1630			4.0							3.1				
1800			3.9				3.2	3.3		3.0				
1930				3.9			3.1	3.2					3.0	
2100				3.8									3.1	
2230														
2400	4.0	4.0	3.9	3.8	3.8	3.6	3.1	3.2	3.1	3.0	3.1	3.1	3.1	3.0
DATE	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2
TIME														
0130	3.0	3.0	3.1	3.1	3.0	3.1	3.1	3.0	3.0	2.8	2.7	2.7	2.6	2.9
0300														
0430														
0600										2.8				
0730				3.1						2.7			2.6	
0900				3.0	3.0								2.7	2.9
1030					3.1								2.8	
1200									3.0					
1330									2.9					
1500													2.7	
1630													2.8	
1800		3.0												
1930		3.1												
2100													2.8	2.7
2230							3.1		2.9				2.9	
2400	3.0	3.1	3.1	3.0	3.1	3.1	3.0	3.0	2.8	2.7	2.7	2.6	2.9	2.7
DATE	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16
TIME														
0130	2.7	2.6	2.9	3.0	2.8	2.8	2.8	2.1	2.3	2.8	2.8	2.7	2.1	2.9
0300												2.6	2.4	
0430							2.8					2.5	2.4	
0600					2.8		2.7				2.8	2.4	2.5	
0730			2.9		2.7		2.7				2.9	2.4	2.6	
0900			3.0				2.6		2.3		2.9	2.3	2.6	
1030						2.8			2.4		2.8	2.3	2.7	
1200		2.6				2.9			2.5			2.2		
1330		2.7		3.0			2.6		2.6			2.2	2.7	
1500	2.7			2.9			2.5	2.1			2.8	2.1	2.8	2.9
1630	2.6	2.7			2.7	2.9	2.4	2.3			2.9			2.8
1800		2.8			2.8	2.8	2.4				2.8			2.2
1930							2.3		2.6				2.8	
2100				2.9			2.2		2.7		2.8		2.9	2.2
2230		2.8		2.8					2.8		2.7	2.1		2.4
2400	2.6	2.9	3.0	2.9	2.8	2.8	2.2	2.3	2.8	2.8	2.7	2.2	2.9	2.4

LAKE MICHIGAN, STATION 10, 22 m continued.

DATE TIME	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	2-29	3-1
0130	2.4	2.3	2.1	2.1	1.4	2.2	2.4	2.5	2.4	2.3	2.4	2.3	2.3	2.5
0300				2.0	1.2									
0430				1.9	1.2									
0600		2.3		2.1	1.1	2.2			2.4			2.3		
0730		2.2		1.9	1.1	2.3			2.3			2.2		
0900					1.2									
1030	2.4			1.9	1.3	2.3								
1200	2.5	2.2		2.0	1.4	2.4							2.3	
1330		2.1		2.1	1.5								2.4	
1500					1.7			2.5			2.4			
1630				2.1	1.9			2.4			2.3			
1800	2.5			2.0	2.1									
1930	2.4			2.1						2.3				
2100				1.8	2.1					2.4			2.4	
2230				1.8	2.2							2.2	2.5	
2400	2.4	2.1	2.1	1.5	2.2	2.5	2.4	2.4	2.3	2.4	2.3	2.3	2.5	2.5
DATE TIME	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15
0130	2.5	2.4	2.8	2.6	2.7	2.4	2.4	2.5	2.3	2.3	2.3	2.3	2.4	2.4
0300			2.9					2.4						
0430			3.0				2.4	2.3						
0600			3.0	2.6										
0730			2.9	2.7					2.3					
0900		2.4	2.7		2.7				2.2					
1030		2.5	2.7		2.6	2.4	2.5							
1200		2.7	2.9			2.3	2.6							
1330		2.8	2.8											
1500		2.9			2.6									
1630					2.5									
1800			2.8			2.3		2.3	2.2			2.3		
1930			2.7			2.4		2.4	2.3			2.4		
2100		2.9												
2230		3.0												
2400	2.5	2.9	2.7	2.7	2.5	2.4	2.6	2.4	2.3	2.3	2.3	2.4	2.4	2.4
DATE TIME	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29
0130	2.4	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.1	1.8
0300										2.2				
0430										2.2				
0600														
0730	2.4													1.8
0900	2.3											2.2		1.7
1030												2.1		
1200														
1330													2.1	1.7
1500													2.0	1.6
1630														
1800													2.0	
1930													1.9	
2100														
2230														
2400	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	1.9	1.6

LAKE MICHIGAN, STATION 10, 22 m continued.

DATE	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12
TIME														
0130	1.6	1.7	1.6	1.6	2.0	2.1								
0300														
0430														
0600		1.7				2.1								
0730	1.6	1.6			2.0									
0900	1.7				2.1	Data ends								
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100				1.6										
2230				1.7										
2400	1.7	1.6	1.6	1.9	2.1									

LAKE MICHIGAN - STATION 10. Depth 30 m.

Start 25 November 1963, 1600 CST; end 15 April 1964, 0900 CST.

Instrument serial no. 244, film record 20,053. Initial cal. ; final cal. 0°C.

DATE	11-25	11-26	11-27	11-28	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8
TIME														
0130		9.2	9.1	9.0	9.0	9.1	8.9	8.9	8.6	8.2	8.0	7.9	7.1	7.8
0300				9.0									7.1	
0430		9.2		8.9	9.0				8.6				7.0	
0600		9.1		8.8	8.9		8.9		8.5				7.0	
0730				8.9			9.0		8.5				7.1	
0900		9.1	9.1		8.9				8.4			7.9		7.8
1030		9.0	9.0		9.0					8.2		7.8		7.6
1200		9.1		8.9				8.9	8.4	8.1		7.6		7.1
1330			9.0	9.0				8.8	8.3	8.0		7.3	7.1	7.0
1500			8.9			9.1			8.3	7.9		7.1	7.2	6.9
1630	9.3		9.0		9.0				8.2	7.9		7.1	7.3	
1800	9.0						9.0	8.8		8.0		7.0		
1930	9.3						8.9	8.7				7.1	7.3	
2100	9.3												7.5	
2230	9.2				9.0	9.0		8.7					7.7	6.9
2400	9.2	9.1	9.0	9.0	9.1	8.9	8.9	8.6	8.2	8.0	8.0	7.1	7.8	6.8

LAKE MICHIGAN, STATION 10, 30 m continued.

DATE	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22
TIME														
0130	6.7	6.6	6.0	6.3	5.8	5.6	5.9	5.5	5.2	5.1	5.0	5.0	4.9	4.8
0300	6.6	6.5		6.2			6.0	5.5		5.1	5.0			
0430	6.5	6.4	6.0	6.1				5.4		5.0	5.1			
0600	6.5	6.3	6.1		5.8						5.1			
0730	6.4	6.2	6.2		5.7		6.0			5.0	5.0			
0900	6.3	6.3	6.4				5.9		5.2	5.1				
1030	6.2	6.6	6.6						5.1					4.8
1200	6.1	6.9	6.8	6.1				5.4		5.1				4.7
1330		6.9	6.8	6.0		5.6		5.3		5.0	5.0			4.7
1500		6.8	6.7			5.7					5.1			4.6
1630		6.4	6.7											4.6
1800	6.1	6.2	6.6									5.0		4.5
1930	6.3	6.1	6.6	6.0			5.9	5.3			5.1			4.5
2100	6.4	6.1	6.5	5.9		5.7	5.7	5.2			5.0			4.4
2230	6.6	6.0	6.5	5.9	5.7	5.8	5.6							
2400	6.6	6.0	6.4	5.8	5.6	5.9	5.5	5.2	5.1	5.0	5.0	4.9	4.9	4.4
DATE	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5
TIME														
0130	4.4	4.2	4.1	4.0	4.0	4.0	3.7	3.3	3.1	3.0	3.0	3.0	3.0	3.0
0300						3.9	3.7							
0430							3.6							
0600	4.4							3.3						
0730	4.3							3.2						
0900				4.0			3.6							
1030		4.2		4.1			3.5							
1200		4.1		4.0		3.9								
1330						3.8								
1500	4.3						3.5							
1630	4.2		4.1				3.4	3.2						
1800			4.0					3.1						
1930		4.1												
2100		4.0												
2230						3.8			3.1					
2400	4.2	4.0	4.0	4.0	4.0	3.7	3.4	3.1	3.0	3.0	3.0	3.0	3.0	3.0
DATE	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19
TIME														
0130	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.7	2.7	2.3	2.2	2.2	2.1	2.1
0300														
0430					3.0				2.7					
0600					2.9		2.9		2.6					
0730							2.8				2.3			
0900										2.2				
1030													2.1	
1200										2.5			2.2	
1330														
1500														
1630														
1800							2.8							
1930							2.7						2.2	
2100									2.4				2.1	
2230														
2400	3.0	3.0	3.0	3.0	2.9	2.9	2.7	2.7	2.4	2.2	2.2	2.2	2.1	2.1

LAKE MICHIGAN, STATION 10, 30 m continued.

DATE	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2
TIME														
0130	2.1	2.1	2.2	2.1	2.1	2.3	2.3	2.1	2.1	2.0	2.0	2.0	2.0	2.0
0300			2.2											
0430			2.1											
0600														
0730					2.1									
0900					2.2									
1030														
1200														
1330							2.3							
1500							2.2							
1630		2.1												
1800		2.2												
1930														
2100							2.2							
2230					2.2		2.1		2.1					
2400	2.1	2.2	2.1	2.1	2.3	2.3	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0
DATE	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16
TIME														
0130	2.0	2.0	2.1	2.1	2.0	2.0	2.0	1.8	2.0	2.1	2.1	2.0	1.8	2.1
0300												1.9	1.9	
0430													1.9	
0600												1.9	2.0	
0730												1.8		
0900												1.7		
1030												1.6		
1200								1.8				1.4		2.1
1330				2.1			2.0	1.9				1.3		2.0
1500				2.0			1.9					1.2		
1630		2.1											2.0	
1800								1.9			2.1		2.1	
1930								2.0			2.0			
2100							1.9		2.1			1.2		
2230							1.8					1.4		2.0
2400	2.0	2.1	2.1	2.0	2.0	2.0	1.8	2.0	2.1	2.1	2.0	1.7	2.1	1.9
DATE	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	2-29	3-1
TIME														
0130	1.9	1.3	1.9	1.5	1.2	1.0	1.0	1.8	1.9	1.9	1.9	1.8	1.9	1.7
0300	1.8			1.4		1.2	1.1	1.8					1.9	
0430	1.6						1.2	1.9			1.9		1.8	
0600	1.4	1.3		1.4		1.2					1.8			
0730	1.3	1.6		1.3	1.2	1.0								
0900	1.2	1.8			1.3									
1030					1.1	1.0								
1200					1.2	0.9	1.2							
1330			1.9		1.4	0.7	1.3					1.8		1.7
1500		1.8		1.2	1.6	0.5	1.5					1.9		1.8
1630		1.9	1.8		1.3	0.2	1.6							
1800			1.7		1.1	0.1								
1930			1.6		1.6	0.2	1.6							
2100			1.6		1.2	0.3	1.7							
2230	1.2		1.5		1.1	0.4	1.8						1.8	1.8
2400	1.3	1.9	1.5	1.2	1.2	0.9	1.8	1.9	1.9	1.9	1.8	1.9	1.7	1.9

LAKE MICHIGAN, STATION 10, 30 m continued.

DATE	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15
TIME														
0130	1.9	1.9	1.9	2.0	2.1	2.1								
0300				2.0										
0430				2.1										
0600														
0730														
0900														
1030														
1200	1.9			2.1										
1330	2.0			2.0		2.1								
1500				2.1										
1630	2.0			2.2										
1800	1.9			2.2										
1930				2.1										
2100				2.0										
2230			1.9	2.1										
2400	1.9	1.9	2.0	2.1	2.1									

LAKE MICHIGAN - STATION 12. Depth 10 m.

Start 18 November 1963, 1400 CST; end 2 April 1964, 1200 CST.

Instrument serial no. 128, file record 20,059. No temperature correction.

DATE	11-18	11-19	11-20	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28	11-29	11-30	12-1
TIME														
0130		10.3	9.4	9.2	9.3	9.5	8.8	8.4	8.3	8.2	8.1	8.0	7.5	7.3
0300				9.2	9.3	9.5	8.7	8.3				7.9	7.4	
0430		10.3		9.1	9.4	9.4	8.6					7.8	7.4	
0600		10.2		9.1	9.4	9.3	8.4			8.2		7.7	7.3	
0730		10.2	9.4	9.2	9.3	9.3	8.3			8.3		7.6		
0900		10.1	9.3			9.2					8.1			
1030		10.0				9.1					8.0			
1200						9.0	8.3					7.6		
1330						9.1	8.4	8.3		3.3		7.7		
1500	10.3	10.0			9.3	9.2		8.4		8.2		7.8		
1630		9.9	9.3		9.2	9.1				8.1		7.7		
1800		9.8	9.2		9.3				8.3			7.6		
1930		9.6			9.4			8.4	8.2			7.5		
2100		9.4		9.2	9.5	9.1								
2230				9.1		9.0		8.3						
2400	10.3	9.4	9.2	9.2	9.5	9.0	8.4	8.3	8.2	8.1	8.0	7.5	7.3	7.3

LAKE MICHIGAN, STATION 12, 10 m continued.

DATE	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15
TIME														
0130	7.3	7.3	7.3	7.0	6.4	6.4	6.3	5.3	6.1	5.6	5.5	4.3	3.3	3.5
0300		7.3			6.4		6.2	5.2		5.6	5.5	4.3		3.4
0430		7.2	7.3		6.3		5.6	5.3	6.1	5.7	5.4	3.9	3.3	3.3
0600			7.2		6.2		5.3	5.3	6.0	5.8	5.4	3.5	3.2	
0730				7.0	6.1		5.3	5.4			5.3	3.4	3.2	
0900				6.9	5.8		5.4	5.5				3.3	3.0	
1030				6.9	5.8	6.4	5.6	5.6					2.8	3.3
1200				6.8	6.0	6.3		5.8	6.0		5.3		3.1	3.2
1330		7.2		6.7	6.2			5.9	5.9		5.2		2.9	3.2
1500		7.3		6.6	6.3	6.3		5.8			4.7		2.8	3.1
1630			7.2			6.2	5.6	5.7	5.9		4.4		3.1	3.1
1800			7.1			6.1	5.5	5.7	5.8				3.5	3.0
1930				6.6	6.3	6.0	5.4	5.8	5.9	5.8			3.9	2.9
2100				6.5	6.4	6.1		5.9	5.9	5.7			4.1	2.7
2230						6.3		6.0	5.8	5.6			3.9	2.4
2400	7.3	7.3	7.1	6.5	6.4	6.3	5.4	6.1	5.6	5.5	4.4	3.3	3.6	2.3
DATE	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29
TIME														
0130	2.3	2.7	1.7	1.6	1.7	2.1	2.1	1.4	1.3	0.4	1.2	0.9	0.1	0.2
0300		2.6	1.7	1.5	2.0	2.0	2.2		1.2	0.6	1.1	0.8		0.3
0430		2.5	2.2	1.4	2.2	1.8	2.3		1.3	0.9	1.0	0.7		
0600	2.3	2.5	2.3	1.4	2.3	1.6			1.2	1.2	0.9	0.5	0.1	
0730	2.7	2.4		1.3		1.5		1.4	0.9	1.3		0.5	0.2	
0900	2.7	2.3		0.7		1.6		1.5	0.5			0.4	0.2	
1030	2.8	2.2		0.5		1.7	2.3	1.6	0.4		0.9		0.3	0.3
1200	2.9	2.0		0.9		1.9	2.2	1.6	0.3		1.1			0.2
1330	3.0	1.9	2.3	1.1		2.0	2.1	1.7			1.2	0.4		0.2
1500	2.9	2.0	2.2	1.2		2.1	2.0	1.9			1.3	0.3	0.3	0.1
1630		2.0	2.1			2.1		1.9			1.3		0.2	0.0
1800	2.9	2.1	2.0	1.2		1.9	2.0	1.8			1.2			
1930	2.8	2.2	1.9	1.3	2.3	1.7	1.9	1.5			1.2			
2100	2.7	2.2	1.8	1.3	2.2	1.9	1.7	1.3		1.3	1.1	0.3		0.0
2230		1.9	1.7	1.4	2.2	2.0	1.5			1.2	1.0	0.2		0.1
2400	2.7	1.7	1.6	1.7	2.1	2.1	1.4	1.3	0.3	1.2	0.9	0.1	0.2	0.1
DATE	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12
TIME														
0130	0.1	0.5	0.3	0.4	1.4	1.3	1.2	1.2	1.2	0.4	0.3	0.2	0.1	0.6
0300	0.2	0.6		0.3		1.2	1.1			0.4				0.9
0430	0.3	0.8		0.4		1.1				0.3				1.1
0600		0.9		0.4		1.0							0.1	1.2
0730	0.3	1.0		0.3	1.4								0.2	1.3
0900	0.4	1.1	0.3	0.4	1.3									
1030		1.1	0.5	0.5			1.1							
1200		1.2	0.5	0.7		1.0	1.2			0.3	0.3	0.2	0.3	
1330		1.0	0.7	0.9		0.9			1.2	0.2	0.2	0.1		
1500		1.1	0.8	1.1					1.1		0.1	0.0		
1630		0.9	0.9	1.2					1.0	0.2	0.1	0.1	0.3	
1800		0.7	0.8	1.3		0.9			0.9	0.3	0.2		0.4	
1930		0.5	0.7			1.0			0.8		0.3			
2100		0.4	0.5			1.2			0.6		0.3			
2230	0.4	0.3	0.4	1.3					0.5		0.2		0.4	
2400	0.5	0.3	0.4	1.4	1.3	1.2	1.2	1.2	0.4	0.3	0.2	0.1	0.5	1.3

LAKE MICHIGAN, STATION 12, 10 m continued.

DATE	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26
TIME														
0130	1.3	0.4	0.2	0.2	0.4	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.2
0300		0.3												
0430														
0600				0.2										
0730	1.3			0.3										
0900	1.2				0.4		0.0				0.2			0.2
1030	0.5		0.2		0.3		0.1				0.3			0.0
1200	0.2		0.3		0.2									0.0
1330	0.2				0.1									0.1
1500	0.1			0.3						0.1				0.3
1630	0.0			0.4						0.2			0.3	0.4
1800		0.3											0.2	0.5
1930		0.2												
2100	0.0				0.1									
2230	0.2		0.3		0.0									0.5
2400	0.3	0.2	0.2	0.4	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.4
DATE	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
TIME														
0130	0.4	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.3	1.0
0300														1.1
0430														1.2
0600	0.4													
0730	0.3	0.3	0.1											
0900		0.2	0.0					0.0			0.2			
1030								0.1			0.3			
1200													0.3	
1330													0.4	
1500		0.2												
1630	0.3	0.1								0.1				
1800	0.4									0.2			0.4	
1930													0.6	
2100	0.4												0.7	
2230	0.3												0.9	
2400	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.3	1.0	1.2
DATE	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23
TIME														
0130	1.2	1.2	0.4	0.2	1.2	1.2	0.5	0.5	0.3	0.9	1.1	0.5	1.1	0.7
0300	1.3	1.1	0.4	0.2		1.0	0.5			1.0	1.0	0.5		
0430		1.0	0.3	0.3		0.8	0.6	0.5		1.1	0.9	0.6		
0600		0.8		0.3		0.7	0.7	0.4		1.2	0.7	0.6		0.7
0730		0.7		0.4		0.5	0.6	0.3	0.3	1.3	0.6	0.7		0.6
0900		0.6	0.3	0.6		0.4		0.4	0.4		0.5	0.7		0.5
1030		0.5	0.2									0.9		0.5
1200		0.5		0.6			0.6					1.0		0.4
1330		0.4		0.8			0.7							0.3
1500	1.3	0.3		1.0	1.2	0.4	0.8		0.4			1.1		
1630	1.2			1.1	1.1	0.5	0.7		0.5					
1800		0.3		1.2			0.6		0.6	1.3			1.1	
1930		0.4							0.6	1.2			1.0	
2100		0.5			1.1				0.7	1.1			0.9	0.3
2230		0.5			1.2		0.6		0.8				0.8	0.7
2400	1.2	0.4	0.2	1.2	1.2	0.5	0.5	0.4	0.9	1.1	0.5	1.1	0.7	0.9

LAKE MICHIGAN, STATION 12, 10 m continued.

DATE	2-24	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
TIME														
0130	0.9	0.2	0.1	0.3	0.3	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.6
0300			0.2		0.2									0.6
0430			0.3		0.1									0.7
0600		0.2			0.0							0.4		
0730		0.1			0.1							0.5	0.5	0.7
0900						0.2					0.4		0.6	0.8
1030						0.3					0.5			0.9
1200					0.1									1.0
1330					0.2	0.3	0.2							
1500						0.2	0.3	0.3						
1630	0.9							0.4						1.0
1800	0.8								0.3					1.1
1930	0.6								0.4					
2100	0.3							0.4						
2230	0.3							0.3						
2400	0.2	0.1	0.3	0.3	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	1.1
DATE	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22
TIME														
0130	1.1	1.2	1.3	1.2	1.4	1.4								
0300				1.2										
0430				1.3										
0600	1.1				1.4									
0730	1.2				1.3	1.4								
0900					1.3	1.5								
1030		1.2			1.2									
1200		1.3		1.3										
1330				1.4	1.2									
1500					1.3	1.5								
1630			1.3			1.6								
1800			1.2		1.3	1.6								
1930					1.4									
2100						Tape ran out								
2230														
2400	1.2	1.3	1.2	1.4	1.4									

LAKE MICHIGAN - STATION 13. Depth 10 m.

Start 19 November 1963, 1030 CST; end 10 April 1964, 0945 CST.

Instrument serial no. 170, film record 20,060. Initial cal. 0°C; final cal. 0°C.

DATE	11-19	11-20	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28	11-29	11-30	12-1	12-2
TIME														
0130		8.8	8.7	8.7	8.6	8.4	8.3	8.1	7.4	7.0	7.2	7.3	7.3	7.1
0300					8.4			8.0	7.3	7.0	7.0			7.1
0430					8.2	8.4		8.0	7.2	6.9	7.0		7.3	7.0
0600					8.0	8.3		7.9	7.1	6.9	7.1	7.3	7.2	
0730		8.8			7.8	8.4		7.8	7.0	7.0	7.2	7.4		
0900		8.7			7.8	8.5		7.6				7.5		
1030					8.0					7.0				
1200	8.8				8.1		8.3	7.6		7.2	7.2	7.5	7.2	
1330					8.2		8.2	7.5		7.3	7.1	7.4	7.1	
1500				8.7	8.3						7.0	7.4		7.0
1630				8.6							6.9	7.3		6.9
1800					8.3	8.5		7.5			7.0			6.9
1930					8.4	8.4		7.6			7.3			6.8
2100						8.4					7.4			6.7
2230						8.3	8.2							
2400	8.8	8.7	8.7	8.6	8.4	8.3	8.1	7.6	7.0	7.5	7.4	7.3	7.1	6.7
DATE	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16
TIME														
0130	6.6	6.7	6.9	6.9	6.8	6.4	6.0	6.1	6.0	5.5	5.2	5.6	5.0	5.0
0300	6.6	6.5	6.9	6.8	6.7	6.5		6.1			5.2	5.4		
0430	6.7	6.4	6.8		6.6	6.5	6.0	6.0			5.3			5.0
0600	6.8				6.4	6.4	6.1			5.5	5.3			4.9
0730					6.3	6.1	6.2			5.4	5.4			4.9
0900						6.0	6.3			5.4	5.5	5.4		4.8
1030			6.8				6.4			5.3		5.3		4.7
1200		6.4	6.9						6.0	5.3				4.6
1330	6.8	6.5					6.4	5.9	5.2					
1500	6.7	6.7					6.3	5.9	5.2	5.5				
1630		6.7					6.2	5.8	5.1	5.6				
1800		6.8						5.7				5.3		
1930												5.2		
2100	6.7				6.3		6.1		5.7			5.1		
2230	6.8				6.4			5.6	5.1			5.0		
2400	6.7	6.8	6.9	6.8	6.4	6.0	6.1	6.0	5.6	5.2	5.6	5.0	5.0	4.6
DATE	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30
TIME														
0130	4.7	4.4	4.2	3.5	3.7	3.6	3.5	3.5	3.5	3.5	3.3	3.6	3.7	3.6
0300	4.8	4.3					3.6	3.5				3.6	3.8	3.6
0430		4.2		3.5	3.7		3.7	3.6				3.5		3.5
0600	4.8	4.1		3.4	3.8	3.6						3.5	3.8	
0730	4.9	4.0		3.4	3.8	3.5	3.7				3.3	3.4	3.7	
0900		3.9	4.2	3.3	3.7		3.6				3.4	3.3		
1030	4.9	3.9	4.1		3.6		3.7	3.6			3.6	3.2		
1200	5.0	3.8	4.0		3.6			3.5			3.7			
1330	5.0	3.7	3.9		3.7		3.7			3.5		3.2		
1500	4.9	3.6	3.8				3.6			3.4		3.3		
1630		3.9	3.7				3.5							
1800	4.9	4.1	3.7		3.7								3.7	
1930	4.9	4.1	3.6	3.3	3.8						3.7	3.3	3.6	
2100	4.8	4.0		3.4	3.7						3.6	3.4		
2230	4.7	4.2	3.6	3.5	3.6							3.6		
2400	4.6	4.2	3.5	3.6	3.6	3.5	3.5	3.5	3.5	3.4	3.6	3.6	3.6	3.5

LAKE MICHIGAN, STATION 13, 10 m continued.

DATE	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13
TIME														
0130	3.5	3.3	3.3	3.4	3.2	3.2	3.3	3.3	3.3	3.2	3.1	3.1	3.1	2.9
0300					3.2									
0430				3.4	3.3	3.2							3.1	
0600	3.5		3.3	3.3	3.4	3.3							3.0	
0730	3.4		3.2											
0900									3.3					
1030	3.4								3.2					
1200	3.3				3.4					3.2				
1330			3.2		3.3					3.1	3.1			
1500			3.3								3.0			
1630			3.4											
1800														
1930														
2100														
2230													3.0	
2400	3.3	3.3	3.4	3.3	3.3	3.3	3.3	3.3	3.2	3.1	3.0	3.1	2.9	2.9
DATE	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27
TIME														
0130	2.9	2.8	2.8	2.9	2.7	2.7	2.8	2.7	2.3	2.6	2.6	2.7	2.7	2.7
0300				2.9						2.7				
0430			2.8	2.8										
0600			2.9	2.8										
0730				2.7			2.8							
0900							2.7							
1030											2.6			
1200	2.9							2.7			2.7			
1330	2.8							2.6						
1500								2.6						
1630							2.7	2.5						
1800							2.6	2.4	2.3	2.7				
1930								2.3	2.4	2.6				
2100							2.6		2.5					
2230							2.7		2.6					
2400	2.8	2.8	2.9	2.7	2.7	2.7	2.7	2.3	2.6	2.6	2.7	2.7	2.7	2.7
DATE	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10
TIME														
0130	2.7	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.1	2.1	2.2	2.2	2.1	2.0
0300														
0430	2.7													
0600	2.6													
0730	2.6													
0900	2.5													
1030								2.2				2.2		
1200								2.1				2.1		
1330														
1500				2.3										
1630				2.2									2.1	
1800													2.0	
1930	2.5													
2100	2.4													
2230	2.4													
2400	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.2	2.1	2.0	2.0

LAKE MICHIGAN, STATION 13, 10 m continued.

DATE	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24
TIME														
0130	2.0	2.2	2.0	2.1	2.0	1.8	1.8	1.7	1.7	1.7	1.8	1.9	1.7	1.8
0300						1.8	1.8							
0430						1.7	1.7							
0600														
0730	2.0		2.0							1.7				
0900	2.1	2.2	2.1	2.1						1.8				
1030	2.2	2.1		2.0	2.0							1.9		
1200					1.9							1.8		
1330														
1500				2.0	1.9									
1630				2.1	1.8							1.8		1.8
1800												1.7	1.7	1.7
1930													1.8	
2100		2.1		2.1										1.7
2230		2.0		2.0		1.7						1.7		1.8
2400	2.2	2.0	2.1	2.0	1.8	1.8	1.7	1.7	1.7	1.8	1.8	1.6	1.8	1.8
DATE	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
TIME														
0130	1.8	1.6	1.6	1.8	1.9	1.7	1.3	1.3	1.2	1.3	1.5	1.5	1.3	1.2
0300	1.7					1.6								
0430						1.5								
0600												1.5		
0730									1.2	1.3		1.4		
0900			1.6			1.5		1.3	1.1	1.4		1.3		
1030			1.5			1.4		1.2	1.1				1.3	1.2
1200									1.2	1.4			1.2	1.1
1330				1.8	1.9	1.4					1.5			
1500				1.9	1.8	1.3					1.4			
1630														
1800	1.7		1.5		1.8									
1930	1.6		1.6		1.7									
2100			1.6							1.3		1.3		
2230			1.7						1.2	1.4	1.4	1.2		
2400	1.6	1.6	1.7	1.9	1.7	1.3	1.3	1.2	1.3	1.5	1.5	1.2	1.2	1.1
DATE	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23
TIME														
0130	1.1	1.0	1.2	1.4	1.1	1.1	1.0	0.9	1.1	1.3	1.3	1.2	1.4	1.3
0300				1.5	1.1				1.2					
0430				1.1	1.0									
0600			1.2											
0730			1.3											1.3
0900								0.9			1.3			1.4
1030								0.8						1.4
1200	1.1	1.0			1.0							1.2		1.5
1330	1.0	1.1			1.1						1.2			1.6
1500							1.0	0.8			1.3			1.7
1630							0.9	0.9						
1800		1.1										1.3		
1930		1.2										1.4		
2100								1.0			1.3		1.3	1.6
2230			1.3			1.1					1.2			1.5
2400	1.0	1.2	1.4	1.1	1.1	1.0	0.9	1.0	1.2	1.3	1.2	1.4	1.3	1.5

LAKE MICHIGAN, STATION 13, 10 m continued.

DATE TIME	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6
0130	1.5	1.6	1.3	1.3	1.4	1.5	1.4	Trace						
0300	1.5	1.6				1.4	1.4	ran out						
0430	1.6	1.5				1.3	1.5							
0600	1.7													
0730														
0900						1.3	1.5							
1030						1.2	1.4							
1200														
1330							1.4							
1500		1.5					1.5							
1630		1.4												
1800				1.3			1.5							
1930				1.4	1.4	1.2	1.4							
2100	1.7	1.4			1.5	1.3	1.4							
2230	1.6	1.3				1.3	1.3							
2400	1.6	1.3	1.3	1.4	1.5	1.4	1.3							

LAKE MICHIGAN - STATION 13. Depth 15 m.

Start 19 November 1963, 1030 CST; end 10 April 1964, 0945 CST.

Instrument serial no. 101, film record 20,061. Initial cal. -0.3°C , final cal. 0°C .

DATE TIME	11-19	11-20	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28	11-29	11-30	12-1	12-2
0130		9.9	9.9	9.9	9.7	9.2	9.2	9.0	8.6	8.2	8.3	8.3	8.3	8.2
0300					9.6				8.5	8.1	8.2			8.1
0430					9.4			9.0	8.4		8.2			
0600					9.1			8.9	8.3	8.1	8.3	8.3	8.3	
0730					9.0	9.2		8.8		8.2		8.4	8.2	
0900					9.0	9.3		8.7		8.3		8.5		
1030	9.9				9.0			8.6						
1200					9.1		9.2					8.5	8.2	
1330					9.2		9.1					8.4	8.3	
1500					9.2						8.3			
1630					9.3		9.1				8.2	8.4		
1800			9.9				9.0				8.2	8.3		
1930			9.8			9.3					8.4			8.1
2100			9.8	9.3	9.2				8.3					8.0
2230			9.7	9.2					8.2					
2400	9.9	9.9	9.9	9.7	9.2	9.2	9.0	8.6	8.2	8.3	8.4	8.3	8.3	8.0

LAKE MICHIGAN, STATION 13, 15 m continued.

DATE	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16
TIME														
0130	7.9	7.9	7.9	7.8	7.8	7.5	7.2	7.1	7.2	6.5	6.0	6.3	6.0	5.9
0300	7.9	7.7			7.7				7.2		6.1	6.1		
0430	8.0	7.6	7.9		7.6	7.5	7.2		7.1		6.2	6.2		5.9
0600			7.8		7.5	7.4	7.3			6.5	6.2			5.8
0730						7.2				6.4	6.3			5.8
0900			7.8	7.8		7.1		7.1		6.3				5.7
1030		7.6	7.9	7.9		7.1		7.2		6.3				5.6
1200		7.7				7.2			7.1	6.2				
1330		7.8			7.5				7.0					
1500		7.9			7.6				6.9	6.2				
1630		8.0							6.9	6.1		6.2	6.0	
1800									6.8	6.0		6.1	5.9	
1930									6.7			6.0		
2100		8.0							6.6					
2230		7.9							6.6					
2400	8.0	7.9	7.9	7.9	7.6	7.2	7.3	7.2	6.5	6.0	6.3	6.0	5.9	5.6

DATE	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30
TIME														
0130	5.6	5.5	5.5	4.8	4.7	4.6	4.6	4.4	4.4	4.4	4.4	4.4	4.4	4.5
0300		5.4		4.8	4.7									
0430	5.6	5.4		4.7	4.8									
0600	5.7	5.3		4.6									4.4	4.5
0730		5.2			4.8								4.5	4.4
0900		5.1			4.7							4.4		
1030	5.7	5.1	5.2									4.3		
1200	5.8	5.0	5.1		4.7									
1330	5.8	5.0	5.1		4.8									
1500	5.7	4.9	5.6											
1630		5.0												
1800		5.1	5.0									4.3		
1930			4.9		4.8							4.4		
2100	5.7	5.1			4.7									
2230	5.6	5.2	4.9		4.6									
2400	5.6	5.2	4.8	4.6	4.6	4.6	4.6	4.4	4.4	4.4	4.4	4.4	4.5	4.4

DATE	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13
TIME														
0130	4.4	4.4	4.4	4.3	4.3	4.3	4.3	4.3	4.3	4.2	4.1	4.1	4.1	4.0
0300														
0430														4.0
0600														3.9
0730														
0900			4.4											
1030			4.3											
1200														
1330														
1500														
1630		4.4												
1800		4.3												
1930									4.3					
2100									4.2	4.2				
2230										4.1				
2400	4.4	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.2	4.1	4.1	4.1	4.1	3.9

LAKE MICHIGAN, STATION 13, 15 m continued.

DATE	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27
TIME														
0130	3.9	3.8	3.6	3.4	3.5	3.3	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.1
0300						3.2	3.1							
0430						3.1	3.2							
0600		3.8		3.4										
0730	3.9	3.7	3.6	3.5						3.2				
0900	3.8		3.5		3.5					3.3	3.2			
1030					3.4						3.3			
1200		3.7								3.3	3.3			
1330		3.6								3.2	3.2		3.2	
1500													3.1	
1630														
1800														
1930			3.5		3.4									
2100			3.4		3.3									
2230														
2400	3.8	3.6	3.4	3.5	3.3	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.1
DATE	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10
TIME														
0130	3.0	2.9	2.9	2.9	2.9	3.0	3.0	2.9	2.8	2.6	2.7	2.6	2.7	2.6
0300									2.8					
0430									2.7					
0600														
0730														
0900												2.6		
1030												2.7		
1200										2.6				
1330									2.7	2.7				
1500					2.9				2.6				2.7	
1630					3.0								2.6	
1800	3.0						3.0					2.7		
1930	2.9						2.9	2.9				2.6		
2100								2.8						
2230														
2400	2.9	2.9	2.9	2.9	3.0	3.0	2.9	2.8	2.6	2.7	2.6	2.7	2.6	2.6
DATE	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24
TIME														
0130	2.6	2.6	2.5	2.5	2.5	2.5	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.2
0300														
0430														
0600														
0730													2.3	
0900													2.2	
1030														
1200		2.6												2.2
1330		2.5												2.1
1500														
1630						2.5								
1800						2.4								
1930								2.4						
2100								2.3						
2230														
2400	2.6	2.5	2.5	2.5	2.5	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.2	2.1

LAKE MICHIGAN, STATION 13, 15 m continued.

DATE TIME	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
0130	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0
DATE TIME	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23
0130	2.0	2.1	2.1	2.0	2.0	2.0	2.1	2.2	2.2	2.2	2.2	2.0	2.1	2.1
0300														
0430														
0600														
0730														
0900						2.0					2.2			
1030						2.1					2.1			
1200														2.1
1330														2.2
1500							2.1							
1630	2.0						2.2							
1800	2.1													
1930												2.0		
2100											2.1	2.1		
2230											2.0			
2400	2.1	2.1	2.1	2.0	2.0	2.1	2.2	2.2	2.2	2.2	2.0	2.1	2.1	2.2
DATE TIME	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6
0130	2.2	2.2	2.0	2.0	2.1	2.0	1.9	2.0	2.1	2.1	2.0	1.9	2.1	2.2
0300														
0430							1.9					1.9		
0600				2.0			2.0					2.0		
0730				2.1										
0900								2.0						2.2
1030								2.1			2.0		2.1	2.1
1200											1.9		2.2	
1330											2.1			
1500		2.2									2.0			
1630		2.1												
1800						2.1						2.0		
1930						2.0						2.1		
2000							2.0							
2230		2.1				1.9								
2400	2.2	2.0	2.0	2.1	2.0	1.9	2.0	2.1	2.1	2.0	1.9	2.1	2.2	2.1

LAKE MICHIGAN, STATION 13, 15 m continued.

DATE TIME	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20
0130	2.1	2.0	2.1	2.2										
0300														
0430														
0600														
0730	2.1													
0900	2.0				2.2									
1030			2.1											
1200			2.2		End of tape									
1330														
1500														
1630														
1800		2.0												
1930		2.1												
2100														
2230														
2400	2.0	2.1	2.2											

LAKE MICHIGAN - STATION 13. Depth 30 m.

Start 19 November 1963, 1030 CST; end 10 April 1964, 0945 CST.

Instrument serial no. 152, film record 20,063. Initial cal. 0°C; final cal. 0°C.

DATE TIME	11-19	11-20	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28	11-29	11-30	12-1	12-2
0130		9.0	9.0	9.0	9.0	8.8	8.9	8.9	8.7	8.4	8.4	8.3	8.3	8.3
0300					8.4				8.7					
0430									8.6					
0600														8.3
0730					8.4	8.8			8.6					8.2
0900					8.5	8.9			8.5					
1030											8.4			
1200	10.1	9.0			8.5			8.9			8.3			
1330		7.2			8.6			8.8	8.5					
1500		8.9			8.6				8.4					
1630	10.1	9.0			8.7									
1800	9.0				8.7									8.2
1930					8.8									8.1
2100														
2230														
2400	9.0	9.0	9.0	9.0	8.8	8.9	8.9	8.8	8.4	8.4	8.3	8.3	8.3	8.1

LAKE MICHIGAN, STATION 13, 30 m continued.

DATE	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16
TIME														
0130	8.1	8.1	8.0	8.0	8.0	7.7	7.4	7.5	7.5	7.1	6.5	6.5	6.3	6.2
0300		8.0			7.9			7.5						
0430					7.8		7.4	7.4						
0600						7.7	7.5			7.1				6.2
0730						7.6				7.0				6.1
0900						7.4		7.4		6.9				6.0
1030								7.5		6.8				6.0
1200									7.5	6.7				5.9
1330									7.3	6.6				
1500									7.2	6.6			6.3	
1630										6.5			6.2	
1800												6.5		
1930												6.4		
2100												6.4		
2230									7.2			6.3		
2400	8.1	8.0	8.0	8.0	7.8	7.4	7.5	7.5	7.1	6.5	6.5	6.3	6.2	5.9

DATE	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30
TIME														
0130	5.9	5.8	5.3	5.3	5.2	5.2	5.2	5.2	5.1	5.1	5.0	5.0	5.0	5.0
0300		5.8												
0430		5.7												
0600		5.7		5.3										
0730		5.6		5.2										
0900		5.5												
1030		5.4												
1200								5.2						
1330		5.4						5.1						
1500		5.3												
1630														
1800														
1930										5.1				
2100										5.0				
2230									5.1					
2400	5.9	5.3	5.3	5.2	5.2	5.2	5.2	5.1	5.0	5.0	5.0	5.0	5.0	5.0

DATE	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13
TIME														
0130	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.9	4.8	4.8	4.7	4.5
0300														
0430													4.7	
0600													4.6	4.5
0730														4.3
0900														
1030													4.6	
1200									5.0				4.5	
1330									4.9			4.8		
1500												4.7		
1630														
1800										4.9				
1930										4.8				
2100														
2230													4.5	
2400	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.9	4.8	4.8	4.7	4.4	4.3

LAKE MICHIGAN, STATION 13, 30 m continued.

DATE	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27
TIME														
0130	4.3	4.3	4.3	4.2	4.1	4.0	3.7	3.7	3.7	3.7	3.7	3.8	3.5	3.5
0300						3.9						3.7		
0430						3.8								
0600						3.7	3.7							
0730							3.8	3.7	3.7					
0900								3.8	3.8		3.7			
1030											3.8			
1200				4.2										
1330				4.1										
1500			4.3						3.8		3.8			
1630			4.2					3.8	3.7		3.9	3.7		
1800								3.7				3.5		
1930					4.1		3.8							
2100					4.0		3.7				3.9	3.5		
2230											3.8	3.4		
2400	4.3	4.3	4.2	4.1	4.0	3.7	3.7	3.7	3.7	3.7	3.8	3.4	3.5	3.5
DATE	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10
TIME														
0130	3.5	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.3	3.3	3.3	3.3	3.3
0300														
0430														
0600		3.5												
0730		3.4							3.4					
0900									3.3					3.3
1030			3.4											3.2
1200			3.3											
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	3.5	3.4	3.3	3.4	3.4	3.4	3.4	3.4	3.3	3.3	3.3	3.3	3.3	3.2
DATE	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24
TIME														
0130	3.2	3.2	3.2	3.2	3.1	3.1	2.9	2.9	2.9	3.0	3.0	3.0	2.9	2.8
0300														
0430						3.1								
0600						3.0								
0730						2.9								
0900									2.9					
1030									3.0					2.8
1200														2.7
1330												3.0		
1500												2.9		
1630														
1800														
1930														
2100				3.2									2.9	2.7
2230				3.1									2.8	2.6
2400	3.2	3.2	3.2	3.1	3.1	2.9	2.9	2.9	3.0	3.0	3.0	2.9	2.8	2.4

LAKE MICHIGAN, STATION 13, 30 m continued.

DATE	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
TIME														
0130	2.4	2.4	2.4	2.3	2.4	2.5	2.5	2.5	2.5	2.3	2.0	2.0	2.0	2.0
0300										2.3				
0430										2.2				
0600	2.4									2.2				
0730	2.3			2.3						2.1				
0900				2.4										2.0
1030														2.1
1200														
1330														
1500	2.3									2.1				
1630	2.4									2.0				
1800														
1930														
2100			2.4						2.5					
2230			2.3						2.3					
2400	2.4	2.4	2.3	2.4	2.4	2.5	2.5	2.5	2.3	2.0	2.0	2.0	2.0	2.1
DATE	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23
TIME														
0130	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.2	2.2	2.2	2.3
0300	2.2													
0430														
0600														
0730														
0900														
1030														
1200														
1330							2.2							
1500						2.1								
1630						2.1								
1800														
1930														
2100														
2230														
2400	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.3
DATE	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6
TIME														
0130	2.3	2.2	2.1	2.0	2.1	2.2	2.1	2.2	2.2	2.2	2.2	2.0	2.0	2.0
0300			2.1											
0430			2.0											
0600				2.0			2.1							
0730				2.1			2.2							
0900														2.0
1030														2.1
1200														
1330											2.2			
1500											2.1			
1630	2.3										2.1			
1800	2.2	2.2									2.0			
1930		2.1												
2100														
2230														
2400	2.2	2.1	2.0	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.0	2.0	2.0	2.1

LAKE MICHIGAN, STATION 13, 30 m continued.

DATE	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20
TIME														
0130	2.2	2.2	2.2	2.2										
0300														
0430														
0600														
0730														
0900					2.2									
1030														
1200					Removed from									
1330					water at 0900									
1500														
1630														
1800														
1930														
2100														
2230														
2400	2.2	2.2	2.2											

LAKE MICHIGAN - STATION 13. Depth 90 m.

Start 19 November 1963, 1030 CST; end 10 April 1964, 0945 CST.

Instrument serial no. 338, film record 20,065. Initial cal. 0°C; final cal. 0°C.

DATE	11-19	11-20	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28	11-29	11-30	12-1	12-2
TIME														
0130		3.8	3.7	3.9	3.9	3.9	3.9	4.0	4.0	4.0	4.0	3.9	3.9	3.9
0300														
0430														
0600														
0730														
0900														
1030														
1200	3.9						3.9							
1330							4.0							
1500														
1630		3.8		3.9										
1800		3.7		3.8							4.0			
1930	3.9										3.9			
2100	3.8		3.7											
2230			3.8											
2400	3.8	3.7	3.8	3.8	3.9	3.9	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.9

LAKE MICHIGAN, STATION 13, 90 m continued.

DATE	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16
TIME														
0130	3.9	4.0	4.0	4.0	4.0	4.0	4.1	4.0	4.0	3.9	4.0	4.0	3.9	4.1
0300										3.9				4.4
0430										4.0				4.6
0600		4.0												4.7
0730		4.1					4.1							4.8
0900							4.0			4.0				4.9
1030										4.1				4.5
1200		4.1								4.0				
1330		4.0										4.0		4.5
1500												3.9	3.9	4.6
1630													4.0	4.8
1800	3.9								4.0					4.9
1930	4.0								3.9					
2100													4.0	4.9
2230													4.1	4.8
2400	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	4.0	4.0	3.9	4.4	4.9
DATE	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	21-30
TIME														
0130	4.3	3.9	4.4	4.6	4.5	4.6	4.4	4.3	4.2	4.2	4.2	4.5	4.7	4.7
0300	4.1		4.4		4.6									
0430			4.3		4.7									
0600		3.9	4.2		4.7	4.6						4.5		
0730	4.1	4.0	4.1		4.6	4.5						4.3		
0900	4.2	4.1	4.1									4.1		
1030	4.5	4.1	4.2	4.6									4.7	
1200	4.0	4.2	4.6	4.5							4.2		4.6	
1330	3.9	4.1	4.7								4.3		4.7	4.7
1500		4.2	4.7				4.4	4.3			4.4	4.1	4.7	4.6
1630		4.1	4.6			4.5	4.3	4.2			4.5	4.2	4.6	
1800		4.2	4.6			4.4								
1930		4.9												
2100		4.9										4.2	4.6	4.6
2230		4.6										4.3	4.7	4.5
2400	3.9	4.6	4.6	4.5	4.6	4.4	4.3	4.2	4.2	4.2	4.5	4.5	4.7	4.5
DATE	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13
TIME														
0130	4.5	4.4	4.3	4.2	4.2	4.2	4.1	4.1	4.0	4.0	4.0	4.0	4.0	4.0
0300														
0430														
0600						4.2								
0730					4.1									
0900														
1030														
1200		4.4												
1330		4.3						4.1						
1500	4.5							4.0						
1630	4.4													
1800			4.3											
1930			4.2											
2100														
2230														
2400	4.4	4.3	4.2	4.2	4.1	4.1	4.1	4.0	4.0	4.0	4.0	4.0	4.0	4.0

LAKE MICHIGAN, STATION 13, 90 m continued.

DATE	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27
TIME														
0130	4.0	4.0	3.9	3.8	3.8	3.2	3.1	3.3	3.3	3.3	3.4	3.5	3.1	3.1
0300						3.1							3.0	
0430		4.0				3.0								
0600		3.9					3.1					3.5		
0730							3.2					3.4	3.0	
0900					3.8		3.2			3.3		3.4	3.1	
1030			3.9		3.7		3.3			3.4		3.3		
1200			3.8									3.3		
1330												3.2		
1500												3.2		
1630											3.4	3.1		
1800											3.5			3.1
1930					3.7									3.0
2100					3.6	3.0								
2230					3.5	3.1								
2400	4.0	3.9	3.8	3.8	3.3	3.1	3.3	3.3	3.3	3.4	3.5	3.1	3.1	3.0
DATE	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10
TIME														
0130	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.9	3.0	3.0	2.9	2.9
0300														
0430														
0600														
0730												3.0		
0900												2.9		
1030														
1200										2.9				
1330										3.0				
1500														
1630														
1800														2.9
1930							3.0							3.0
2100							2.9							
2230														
2400	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.9	3.0	3.0	2.9	2.9	3.0
DATE	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24
TIME														
0130	3.0	3.0	2.9	2.9	2.9	2.8	2.7	2.7	2.6	2.6	2.6	2.8	2.9	2.7
0300														
0430														2.7
0600		3.0												2.6
0730		2.9											2.9	
0900				2.9								2.6	2.8	
1030				2.8							2.7	2.8		2.6
1200												2.9		2.5
1330					2.8									
1500						2.8							2.8	
1630						2.7							2.7	2.5
1800														2.4
1930								2.7						
2100								2.6				2.7		
2230											2.8			
2400	3.0	2.9	2.9	2.8	2.8	2.7	2.7	2.6	2.6	2.6	2.8	2.9	2.7	2.4

LAKE MICHIGAN, STATION 13, 90 m continued.

DATE	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
TIME														
0130	2.3	2.3	2.4	2.5	2.5	2.3	2.3	2.2	2.2	2.3	2.2	2.2	2.2	2.2
0300														
0430														
0600					2.5		2.3		2.2					
0730			2.4		2.4		2.2		2.3					
0900			2.5											
1030														
1200														
1330		2.3												2.2
1500		2.4								2.3				2.3
1630										2.2				
1800														
1930					2.4									
2100					2.3									2.3
2230														2.4
2400	2.3	2.4	2.5	2.5	2.3	2.3	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.4
DATE	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23
TIME														
0130	2.4	2.5	2.5	2.5	2.6	2.4	2.5	2.7	2.7	2.7	2.8	2.7	2.6	2.7
0300							2.5					2.7		
0430							2.6					2.6	2.6	
0600					2.6					2.7			2.7	
0730	2.4				2.5					2.8		2.6		
0900	2.5											2.5		
1030							2.6							2.7
1200							2.7							2.8
1330				2.5										
1500				2.6		2.4								
1630					2.5	2.5								
1800					2.4						2.8	2.5		
1930											2.7	2.6		
2100														
2230														
2400	2.5	2.5	2.5	2.6	2.4	2.5	2.7	2.7	2.7	2.8	2.7	2.6	2.7	2.8
DATE	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6
TIME														
0130	2.8	2.9	2.5	2.3	2.6	2.6	2.3	2.4	2.5	2.6	2.6	2.2	2.5	2.6
0300			2.5	2.4							2.6		2.5	
0430			2.4	2.5	2.6						2.5		2.6	
0600			2.3	2.6	2.7			2.4				2.2		2.6
0730						2.6		2.5			2.5	2.3		2.7
0900	2.8		2.3			2.5					2.4			
1030	2.9	2.9	2.2											
1200		2.8	2.1		2.7				2.5			2.3		
1330					2.6	2.5	2.3		2.6		2.4	2.4		
1500						2.4	2.4				2.3	2.4		
1630											2.2	2.5		
1800		2.8												
1930		2.7												
2100		2.7	2.1											
2230		2.6	2.2											
2400	2.9	2.5	2.2	2.6	2.6	2.4	2.4	2.5	2.6	2.6	2.2	2.5	2.6	2.7

LAKE MICHIGAN, STATION 13, 90 m continued.

DATE	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20
TIME														
0130	2.7	2.5	2.5	2.7										
0300			2.5											
0430			2.6											
0600	2.7													
0730	2.6													
0900				2.7										
1030														
1200														
1330			2.6											
1500			2.7											
1630	2.6													
1800	2.5													
1930														
2100														
2230														
2400	2.5	2.5	2.7											

LAKE MICHIGAN - STATION 15. Depth 10 m.

Start 26 November 1963, 0830 CST; end 15 April 1964, 1200 CST.

Instrument serial no. 259, film record 20,081. Initial cal. Indet.; final cal. -0.5°C .

DATE	11-26	11-27	11-28	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9
TIME														
0130		11.0	10.8	10.3	9.9	9.8	10.1	10.0	10.0	9.8	9.5	9.9	9.4	9.1
0300			10.7	10.2								9.9	9.3	9.2
0430		11.0	10.5	10.1					10.0			9.8	9.2	
0600		10.9	10.4	10.0					9.9	9.8		9.7	9.0	
0730			10.5		9.9					9.7			8.9	
0900	10.8				9.8		10.1		9.9	9.7				
1030			10.9				10.0		9.8	9.6				
1200	11.0										9.5			9.2
1330		10.9			9.8	9.8				9.6	9.7	9.7		9.1
1500		10.8			9.7	9.9				9.5	9.8	9.8		
1630						9.9			9.8	9.4	9.9			
1800			10.5	10.0	9.7	10.0							8.9	9.1
1930			10.4	9.9	9.8					9.4		9.8	9.0	9.0
2100										9.5		9.7	9.0	
2230			10.4						9.9			9.6	9.1	
2400	11.0	10.8	10.3	9.9	9.8	10.0	10.0	10.0	9.8	9.5	9.9	9.6	9.1	9.0

LAKE MICHIGAN, STATION 15, 10 m continued.

DATE	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23
TIME														
0130	9.0	8.7	8.7	8.1	7.2	6.7	6.1	6.0	6.1	5.9	5.7	5.7	5.9	5.8
0300			8.6	8.0	7.1	6.6			6.1			5.8	5.9	
0430		8.7			7.0	6.5			6.0			5.9	5.8	
0600		8.6	8.6			6.4					5.7	5.9		
0730			8.5								5.8	6.0		
0900				8.0		6.4	6.1		6.0					
1030		8.6	8.5	7.9		6.3	6.0		5.9					
1200		8.7	8.4	7.9										
1330		8.7		7.8		6.3								
1500		8.8		7.7		6.2				5.9	5.8			
1630				7.6	7.0					5.8	5.7	6.0		
1800	9.0		8.4	7.5	6.9							5.9		
1930	8.9		8.3	7.4										
2100	8.8	8.8	8.3	7.3	6.9	6.2		6.0						
2230	8.8	8.7	8.2	7.3	6.8	6.1		6.1		5.8				
2400	8.7	8.7	8.1	7.2	6.7	6.1	6.0	6.1	5.9	5.7	5.7	5.9	5.8	5.8

DATE	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6
TIME														
0130	5.8	5.8	5.8	5.8	5.8	5.7	5.5	5.3	5.3	5.1	5.0	5.0	5.0	5.0
0300														
0430														
0600					5.8				5.3	5.1				5.0
0730					5.7		5.5		5.2	5.0				4.9
0900							5.4							
1030						5.7								
1200						5.6								
1330									5.2					
1500									5.1					
1630														
1800							5.4							
1930						5.6	5.3							
2100						5.5								
2230														
2400	5.8	5.8	5.8	5.8	5.7	5.5	5.3	5.3	5.1	5.0	5.0	5.0	5.0	4.9

DATE	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20
TIME														
0130	4.9	4.9	4.9	4.7	4.7	4.5	4.3	4.3	4.0	4.0	4.0	4.0	4.0	4.0
0300									3.7					
0430									2.7					
0600			4.9						2.3					
0730			4.8			4.5								
0900					4.7	4.4	4.3		2.3					
1030					4.6		4.4		2.4					
1200							4.5		2.6					
1330									2.8					
1500			4.8			4.4			2.9					
1630			4.7			4.3			3.6					
1800									4.0					
1930					4.6		4.5							
2100					4.5		4.4	4.3						
2230							4.4	4.1						
2400	4.9	4.9	4.7	4.7	4.5	4.3	4.3	4.0	4.0	4.0	4.0	4.0	4.0	4.0

LAKE MICHIGAN, STATION 15, 10 m continued.

DATE	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3
TIME														
0130	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.8	3.5	3.4	3.4			
0300														
0430														
0600								3.8						
0730	4.0						3.9	3.7	3.5					
0900	3.5						3.8		3.4					
1030	3.2						3.8							
1200	3.1						3.9	3.7						
1330							3.8	3.6						
1500														
1630					4.0									
1800					3.9									
1930								3.6						
2100	3.1							3.5						
2230	3.6													
2400	4.0	4.0	4.0	4.0	3.9	3.9	3.8	3.5	3.4	3.4	3.4			

Data ends, Damaged film.

LAKE MICHIGAN - STATION 15. Depth 22 m.

Start 26 November 1963, 0830 CST; end 15 April 1964, 1200 CST.

Instrument serial no. 109, film record 20,083. Initial cal. 0°C; final cal. -0.4°C.

DATE	11-26	11-27	11-28	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9
TIME														
0130		9.9	9.7	9.4	9.2	9.0	9.3	9.3	9.3	9.2	8.7	8.8	8.7	8.3
0300			9.7		9.1		9.3			9.2			8.6	
0430			9.6				9.4			9.1			8.5	
0600		9.9	9.5										8.4	
0730		9.8											8.2	8.3
0900	9.5			9.4					9.3	9.0				8.4
1030	9.6			9.3	9.1				9.2			8.8		
1200	9.7				9.0							8.7		
1330	9.8													
1500	9.9					9.0				8.9				
1630				9.3		9.1	9.4							
1800				9.2		9.1	9.3				8.7			
1930		9.8				9.2				8.9	8.8		8.2	
2100		9.7								8.8			8.3	
2230			9.5											
2400	9.9	9.7	9.4	9.2	9.0	9.2	9.3	9.3	9.2	8.8	8.8	8.7	8.3	8.4

LAKE MICHIGAN, STATION 15, 22 m continued.

DATE	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23
TIME														
0130	8.4	8.0	7.7	7.4	6.4	6.0	5.7	5.4	5.4	5.3	5.2	4.9	5.1	5.2
0300		7.8				5.9	5.6							
0430		7.7			6.4	5.8			5.4		5.2	4.9	5.1	
0600			7.7	7.4	6.3				5.3		5.1	5.0	5.2	
0730			7.6	7.3								5.1		
0900				7.3								5.2		
1030				7.2			5.6							
1200				7.1		5.8	5.5							
1330				7.0	6.3	5.7					5.1			
1500				6.8	6.2					5.3	5.0			
1630			7.6	6.7			5.5			5.2				
1800			7.5	6.6	6.2		5.4					5.2		
1930	8.4			6.5	6.1						5.0	5.1		
2100	8.3		7.5	6.4							4.9			
2230	8.2		7.4		6.1									
2400	8.1	7.7	7.4	6.4	6.0	5.7	5.4	5.4	5.3	5.2	4.9	5.1	5.2	5.2

DATE	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6
TIME														
0130	5.2	5.0	5.0	5.0	5.0	4.8	4.6	4.4	4.4	4.4	4.1	4.1	4.0	4.0
0300														
0430														
0600		5.2					4.6							
0730	5.1				5.0		4.5							
0900					4.9									
1030						4.8				4.4				
1200						4.7				4.3				
1330							4.5							
1500	5.1						4.4					4.1		
1630	5.0											4.0		
1800														4.0
1930					4.9									3.9
2100					4.8					4.2				
2230						4.7				4.1				
2400	5.0	5.0	5.0	5.0	4.8	4.6	4.4	4.4	4.4	4.1	4.1	4.0	4.0	3.9

DATE	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20
TIME														
0130	3.9	3.7	3.7	3.6	3.5	3.4	3.4							
0300														
0430	3.9													
0600	3.8			3.7										
0730				3.6										
0900														
1030														
1200														
1330														
1500														
1630														
1800	3.8						3.4							
1930	3.7			3.6										
2100				3.5	3.5									
2230					3.4									
2400	3.7	3.7	3.6	3.5	3.4	3.4								

Data ends.

LAKE MICHIGAN - STATION 15. Depth 30 m.

Start 26 November 1963, 0830 CST; end 15 April 1964, 1200 CST.

Instrument serial no. 105, film record 20,084. Initial cal. 0°C; final cal. 0°C.

DATE	11-26	11-27	11-28	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9
TIME														
0130		10.0	10.0	9.9	9.2	9.1	9.3	9.3	9.3	9.2	9.0	9.0	9.0	8.5
0300							9.4							
0430													9.0	
0600				9.9			9.4			9.2			8.9	
0730				9.8			9.5			9.1			8.7	8.5
0900	9.8			9.7									8.4	8.6
1030	9.8			9.6					9.3				8.3	8.7
1200	9.9			9.5					9.2					
1330	10.0			9.4			9.5			9.1				
1500					9.2		9.4			9.0				
1630					9.1	9.1	9.3							
1800			10.0	9.4		9.2								
1930			9.9	9.3										
2100													8.3	
2230				9.3		9.2							8.4	8.7
2400	10.0	10.0	9.9	9.2	9.1	9.3	9.3	9.3	9.2	9.0	9.0	9.0	8.5	8.8
DATE	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23
TIME														
0130	8.8	8.1	7.9	7.9	6.9	6.1	5.9	5.7	5.7	5.4	5.3	5.2	5.3	5.2
0300	8.8	8.1		7.8	6.9	6.1			5.5					
0430	8.7	8.0		7.7	6.8	6.0					5.3			
0600	8.6			7.6	6.7						5.2	5.2		
0730				7.5	6.6					5.4		5.3		
0900				7.4	6.5					5.3			5.3	
1030				7.3					5.5				5.2	
1200	8.6			7.3	6.5				5.4					
1330	8.5			7.1	6.4		5.9							
1500	8.4			7.0	6.3		5.8							
1630		8.0												
1800		7.9			6.3									
1930					6.2	6.0	5.8							
2100	8.4			7.0	6.1	5.9	5.7							
2230	8.3			6.9										
2400	8.2	7.9	7.9	6.9	6.1	5.9	5.7	5.7	5.4	5.3	5.2	5.3	5.2	5.2
DATE	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6
TIME														
0130	5.2	5.2	5.2	5.2	5.2	5.2	5.0	5.0	4.9	4.5	4.4	4.3	4.3	4.2
0300														
0430									4.9					
0600								5.0	4.8					
0730								4.9						
0900						5.2								
1030						5.1			4.8					
1200									4.7					
1330											4.4			
1500											4.3			
1630							5.0		4.7					
1800						5.1	4.9		4.6	4.5				
1930						5.0				4.4			4.3	
2100													4.2	
2230									4.6					
2400	5.2	5.2	5.2	5.2	5.2	5.0	4.9	4.9	4.5	4.4	4.3	4.3	4.2	4.2

LAKE MICHIGAN, STATION 15, 30 m continued.

DATE	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20
TIME														
0130	4.2	4.2	4.2	4.1	4.1	4.1	4.1	4.0	3.0	3.1	3.0	3.0	3.0	3.1
0300									3.1					
0430														
0600								4.0						
0730								3.9						
0900			4.2				4.1	3.7						3.1
1030			4.1				4.0	3.5		3.1				3.0
1200								3.4		3.0				
1330								2.8						
1500								2.1						
1630														
1800													3.0	2.9
1930													3.1	
2100								2.1						
2230								2.3						
2400	4.2	4.2	4.1	4.1	4.1	4.1	4.0	2.5	3.1	3.0	3.0	3.0	3.1	2.9
DATE	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3
TIME														
0130	2.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0300	2.9													
0430	3.0													
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

LAKE MICHIGAN - STATION 17. Depth 10 m.

Start 21 November 1963, 0900 CST; end 2 April 1964, 1515 CST.

Instrument serial no. 135, film record 20,092. Initial cal. 0°C; final cal. Indet.

DATE	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28	11-29	11-30	12-1	12-2	12-3	12-4
TIME														
0130		10.6	10.8	10.1	10.2	9.1	9.5	9.4	8.8	9.0	8.8	8.4	8.0	7.0
0300		10.9	10.4		10.1	9.1	9.4	9.3			8.6			
0430		11.0	10.1		10.0	9.2		9.2			8.2			
0600		11.1			9.9		9.4	9.0	8.8		7.9			7.0
0730		11.0			9.4		9.5		8.9		7.2	8.4		6.9
0900				10.1	9.2	9.2				9.0	7.1	8.3	8.0	6.8
1030	10.1			10.2	9.1	9.3				8.9	7.3	8.0	7.9	
1200			10.1	10.3	9.0	9.4	9.5				7.7	7.9	7.8	
1330	10.1	11.0	10.4		8.8	9.6	9.4	9.0	8.7		7.9	8.0	7.6	
1500	10.2	10.9			8.8	9.7		8.9	8.2		8.0		7.2	
1630	10.2	10.8		10.3	8.9				8.2		8.1		7.0	
1800	10.3			10.2	9.0		9.4		8.3		8.2	8.0		
1930		10.8		9.9			9.5	8.9	8.4		8.3	7.9		
2100		10.7	10.4	10.0				8.8	8.7		8.4			
2230		10.8	10.3	10.1		9.7			8.9	8.9	8.3			
2400	10.3	10.9	10.1	10.2	9.0	9.6	9.5	8.8	9.0	8.8	8.4	7.9	7.0	6.8

DATE	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18
TIME														
0130	6.8	7.0	6.7	6.9	6.9	6.7	6.1	5.6	5.1	5.1	5.1	5.1	4.9	4.1
0300	6.7				6.9	6.7			5.0					
0430	6.9				6.8	6.6			4.9					
0600	6.6	7.0						5.6						
0730	7.0	6.9		6.9			6.1	5.5						
0900	7.2	6.7		6.8		6.6	6.0							
1030	7.3	6.8			6.8	6.4						5.1		
1200	7.1	6.7			6.7	6.2						5.0		4.1
1330	7.3		6.7						4.9					4.0
1500	7.4		6.8				6.0		5.0					3.9
1630	7.4		6.9	6.8			5.9		5.1				4.9	
1800	7.3			6.9			5.9						4.8	
1930	7.2						5.8						4.6	
2100	7.1					6.2	5.8	5.5				5.0	4.2	3.9
2230	7.0					6.1	5.7	5.4				4.9	4.1	3.8
2400	7.0	6.7	6.9	6.9	6.7	6.1	5.7	5.3	5.1	5.1	5.1	4.9	4.1	3.7

DATE	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1
TIME														
0130	3.6	3.2	2.8	2.6	2.4	2.2	2.3	2.3	2.4	2.7	2.8	2.8	2.4	2.0
0300	3.5	3.1		2.5										
0430	3.3													
0600	3.2				2.4				2.4		2.8	2.8		
0730					2.2				2.5		2.7	2.6		
0900		3.1		2.5				2.3				2.4		
1030		3.0	2.8	2.4				2.4					2.4	
1200			2.7										2.3	
1330		3.0												
1500		2.9							2.5	2.7			2.3	
1630		2.9							2.6	2.8			2.2	
1800		2.8				2.2							2.1	
1930						2.3			2.6		2.7		2.1	
2100									2.7		2.8		2.0	
2230														
2400	32.	2.8	2.7	2.4	2.2	2.3	2.3	2.4	2.7	2.8	2.8	2.4	2.0	2.0

LAKE MICHIGAN, STATION 17, 10 m continued.

DATE TIME	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15
0130	2.0	2.0	2.0	2.1	2.0	2.0	2.2	2.6	2.6	2.7	2.7	2.3	2.0	2.3
0300												2.2	2.0	
0430						2.0							2.1	
0600				2.1		2.1								
0730				2.0								2.2	2.1	
0900												2.1	2.2	
1030												2.0	2.3	
1200														
1330							2.2							
1500			2.0			2.1	2.3							2.3
1630			2.1			2.2	2.4							2.2
1800											2.7			
1930									2.6		2.6			
2100							2.4		2.7		2.5			
2230							2.5				2.4			
2400	2.0	2.0	2.1	2.0	2.0	2.2	2.6	2.6	2.7	2.7	2.4	2.0	2.3	2.2
DATE TIME	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29
0130	2.2	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1
0300														
0430														
0600														
0730			2.2											
0900			2.1											
1030														
1200									2.0					
1330									2.1					
1500														
1630														
1800														
1930			2.1											
2100			2.0											
2230														
2400	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1
DATE TIME	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12
0130	2.1	2.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2
0300		2.2												
0430		2.3												
0600														
0730														
0900														
1030														
1200														
1330														
1500													2.3	
1630													2.2	
1800														
1930														
2100														
2230														
2400	2.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2

LAKE MICHIGAN, STATION 17, 10 m continued.

DATE	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26
TIME														
0130	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.1	2.0	2.1
0430														
0600														2.1
0730														2.0
0900														
1030												2.1		
1200										2.3		2.0		
1330										2.2				
1500														
1630											2.2			
1800											2.1			2.0
1930								2.2					2.0	2.1
2100								2.3					2.1	
2230														
2400	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.1	2.0	2.1	2.1
DATE	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11
TIME														
0130	2.0	2.1	2.1	2.1	2.0	2.0	2.1	2.3	2.2	2.2	2.2	2.2	2.3	2.3
0300														
0430														
0600														
0730				2.1								2.2		
0900				2.0		2.0						2.3		
1030						2.1								
1200														
1330														
1500														2.3
1630	2.0							2.3						2.4
1800	2.1							2.2						
1930														
2100							2.1							
2230							2.2							
2400	2.1	2.1	2.1	2.0	2.0	2.1	2.3	2.2	2.2	2.2	2.2	2.3	2.3	2.4
DATE	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25
TIME														
0130	2.5	2.5	2.5	2.6	2.6	2.7	2.6	2.6	2.6	2.7	2.7	2.7	2.6	2.6
0300						2.7								
0430						2.6								
0600														
0730														
0900														
1030														
1200			2.5											
1330			2.6											
1500					2.6									
1630					2.7									
1800														2.6
1930														2.7
2100									2.6					
2230									2.7			2.7		
2400	2.5	2.5	2.6	2.6	2.7	2.6	2.6	2.6	2.7	2.7	2.7	2.6	2.6	2.7

LAKE MICHIGAN, STATION 17, 10 m continued.

DATE TIME	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
0130	2.7	2.7	2.8	2.8	2.8									
0300														
0430														
0600														
0730														
0900														
1030														
1200		2.7												
1330		2.8			2.8									
1500														
1630														
1800														
1930														
2100														
2230														
2400	2.7	2.8	2.8	2.8										

LAKE MICHIGAN - STATION 17. Depth 15 m.

Start 21 November 1963, 0900 CST; end 2 April 1964, 1515 CST.

Instrument serial no. 298, film record 20,093. No temperature correction.

DATE TIME	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28	11-29	11-30	12-1	12-2	12-3	12-4
0130		8.8	8.9	8.8	9.0	7.7	8.4	8.4	7.3	7.6	7.5	5.5	6.4	6.6
0300		9.0	8.7	8.9		7.4	8.5	8.3	7.5	7.4	7.6	5.7	6.3	6.0
0430			8.6	9.0		7.5	8.6		7.5	7.0		6.0		5.8
0600			7.7	9.0	9.0	7.6		8.3	7.6			6.0		5.7
0730			6.7	9.1	8.8	7.7	8.6	8.2		7.0		6.1		
0900			6.5		7.5	7.8	8.3		7.6	7.1		6.3	6.3	5.7
1030	9.8	9.0	5.5	9.1	8.0	7.9	8.1		6.8	7.2		6.4	6.1	5.8
1200	10.1	8.9	5.4	9.0	8.4	8.0	7.0	8.2	6.7	7.6		6.5	6.0	5.7
1330	9.7	9.0	5.7	7.5	8.7		8.1	8.3	7.3	7.6		6.8	5.9	5.8
1500	9.5	9.0	6.1	7.2	8.9	8.0	8.0			7.5	7.6	7.1	6.3	5.8
1630	9.4	9.2	6.5	8.2	8.8	8.1	8.1	8.3		7.4	6.7	7.2	6.7	5.7
1800	9.3	9.5	6.3	8.8	8.7	8.3	8.2	7.0	7.3	7.3	5.8	7.2	6.8	5.7
1930	8.5	9.5	6.7	8.9	8.6	8.3	8.3	6.5	7.4	7.2	5.7	7.3	6.9	5.6
2100	8.2	9.7	8.0	9.0	8.3	7.5	8.4	6.7	7.5	7.4	5.5		6.8	
2230	8.3	9.6	8.5		8.0	7.9		6.3	7.6	7.6	5.3	7.3	6.7	
2400	8.9	9.1	8.7	9.0	7.8	8.1	8.4	5.9	7.6	7.6	5.4	6.9	6.6	5.6

LAKE MICHIGAN, STATION 17, 10 m continued.

DATE	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18
TIME														
0130	5.6	5.3	5.4	5.5	5.6	5.5	5.3	5.0	4.4	3.3	4.1	4.1	4.0	3.7
0300		5.3		5.6				4.8		3.5		4.1		
0430		5.5	5.4					4.8	4.4	3.8	4.1	4.0		
0600		5.6	5.5					4.7	4.5	4.0	4.2			
0730							5.3	4.7	4.6	4.1	4.1			
0900					5.6		5.4	4.5	4.6	4.1				
1030					5.5		5.3		4.5	4.2			4.0	3.7
1200							5.3		4.4				3.9	3.3
1330	5.6	5.6					5.4	4.5	4.2				3.8	3.1
1500	5.5	5.7					5.4	4.7	3.8					3.0
1630	5.4	5.7					5.3	4.7	3.6	4.2			3.8	
1800	5.3	5.6						4.6	3.5	4.1			3.7	
1930	5.3	5.5						4.5	3.4	4.0			3.6	
2100	5.7	5.4				5.5	5.3	4.4	3.4					
2230	5.9			5.6		5.5	4.9		3.3					
2400	5.7	5.4	5.5	5.5	5.5	5.4	5.0	4.4	3.3	4.0	4.1	4.0	3.6	3.0
DATE	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1
TIME														
0130	2.9	2.3	2.0	1.7	1.0	1.0	2.0	1.8	2.0	1.9	1.8	1.7	1.1	1.0
0300	2.7	2.4	1.9	1.7	1.0	1.0	2.0	1.7	1.6	1.8		1.7	1.1	
0430	2.6	2.5	1.7	1.6	1.1	0.9	2.1	1.7				1.6	1.0	
0600		2.4		1.5	1.1	0.8	2.0	1.6		1.8				
0730				1.4	1.2	0.8	1.9			1.9				1.0
0900		2.4		1.4	1.3	0.9				2.0	1.8			0.9
1030		2.3		1.3		0.9		1.6		2.0	1.9			
1200				1.3	1.3	1.1		1.7		1.9				
1330	2.6			1.4	1.4	1.2		2.0			1.9			0.9
1500	2.5				1.4	1.3	1.9	2.1	1.6	1.9	1.8	1.6		1.0
1630	2.3				1.3	1.4	1.8	2.1	1.7	2.0	1.7	1.5		1.1
1800						1.5	1.8	2.2	1.7	2.0		1.4		1.1
1930				1.4	1.3	1.6	1.7	2.2	1.8	1.9		1.4		1.2
2100		2.3		1.3	1.2	1.7		2.3	1.9	1.8		1.3		1.3
2230		2.2		1.1	1.0	2.0		2.3	2.0			1.2		1.3
2400	2.3	2.0	1.7	1.0	1.0	2.0	1.7	2.1	2.0	1.8	1.7	1.1	1.0	1.4
DATE	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15
TIME														
0130	1.5	1.3	1.6	1.3	1.6	1.7	1.6	1.9	2.0	2.0	1.7	1.4	0.7	1.7
0300	1.5	1.2	1.4		1.5	1.7		1.8	1.9				0.9	
0430	1.3	1.1	1.2		1.5	1.6	1.6				1.7		1.1	
0600	1.2	1.0	1.3		1.7	1.5	1.7				1.6			
0730	1.4				1.6		1.7					1.4		
0900	1.6				1.5		1.8	1.8			1.6	1.3		
1030					1.5		2.1	1.9			1.7	1.1		
1200	1.6	1.0			1.6		2.2	2.1			1.8	1.0	1.1	
1330	1.4	1.2			1.8			2.2			1.9		1.2	1.7
1500	1.4	1.3			1.8	1.5	2.2				1.9	1.0	1.3	1.6
1630	1.5	1.4		1.3	2.1	1.6	2.1			2.0	1.8	0.9		1.5
1800	1.5	1.5		1.5	2.2	1.7	2.3			1.9	1.7			1.4
1930	1.4	1.5		1.5	2.2	1.6				1.8	1.6	0.9	1.3	1.3
2100	1.4	1.4		1.4	2.1	1.5	2.3		1.9		1.5	0.7	1.4	1.2
2230	1.3	1.5		1.4	2.0	1.6	2.2	2.2	2.0	1.8	1.4	0.5	1.6	
2400	1.3	1.5	1.3	1.5	1.8	1.6	2.0	2.1	2.0	1.7	1.3	0.4	1.7	1.2

LAKE MICHIGAN, STATION 17, 15 m continued.

DATE	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29
TIME														
0130	1.2	1.0	1.0	0.8	1.2	1.0	1.2	1.2	1.2	1.5	1.4	1.2	1.2	1.2
0300	1.1		1.0	0.8			1.2	1.2				1.2		
0430	1.1		0.9	0.9			1.1	1.3				1.3		
0600	1.2		0.9	1.0			1.0							
0730	1.3		0.8	0.9				1.3						
0900				0.9			1.0	1.4		1.5				
1030	1.3			1.0			1.1	1.4		1.6				
1200	1.2							1.3	1.2					1.2
1330	1.1							1.3	1.3					1.3
1500			0.8		1.2			1.2		1.6	1.4			
1630			0.9		1.0					1.5	1.3			
1800	1.1				0.9				1.3					
1930	1.0			1.0	0.8				1.4	1.5				
2100				1.1		1.0		1.2		1.4				1.3
2230	1.0		0.9	1.2		1.1	1.1	1.3			1.3	1.2		1.2
2400	0.9	1.0	0.8	1.2	0.8	1.2	1.2	1.2	1.4	1.4	1.2	1.2	1.2	1.2
DATE	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12
TIME														
0130	1.2	1.2	1.8	1.5	1.5	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.4	1.2
0300			1.7						1.6					
0430		1.2							1.5					1.2
0600		1.3				1.6								1.0
0730	1.2					1.7				1.5				
0900	1.3	1.3								1.4				
1030	1.2	1.4												
1200		1.4												
1330		1.6												
1500	1.2	1.7											1.4	
1630	1.1	1.8											1.3	
1800		1.9	1.7							1.4				
1930			1.6					1.5	1.5					
2100			1.6		1.5			1.4					1.3	
2230			1.5		1.6	1.7					1.5	1.2		
2400	1.1	1.9	1.5	1.5	1.6	1.6	1.6	1.6	1.4	1.5	1.5	1.4	1.2	1.0
DATE	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26
TIME														
0130	1.1	1.1	1.1	1.2	1.0	1.0	1.2	1.2	1.2	1.0	1.0	0.7	0.7	0.5
0300							1.2				1.0		0.6	
0430							1.1				0.9			
0600											0.8			
0730														
0900	1.1					1.0					0.8			
1030	1.2					1.1					0.7		0.6	
1200				1.2					1.2				0.5	
1330	1.2		1.1	1.1					1.1					
1500	1.3		1.2											
1630														
1800								1.1						
1930								1.0						
2100		1.1		1.0										
2230	1.3	1.0												
2400	1.1	1.0	1.2	1.0	1.0	1.1	1.1	1.2	1.0	1.0	0.7	0.7	0.5	0.5

LAKE MICHIGAN, STATION 17, 15 m continued.

DATE	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11
TIME														
0130	0.5	0.5	0.7	0.9	1.1	1.0	1.2	1.2	1.3	1.0	1.2	1.2	1.2	1.3
0300		0.6						1.2						
0430								1.3						
0600			0.7	0.9										
0730			0.8	1.0				1.3		1.0				
0900		0.6						1.4		1.1				
1030		0.7						1.4						
1200								1.5						
1330			0.8	1.0		1.0		1.5						
1500			0.7	0.9		1.1		1.4	1.3					
1630						1.2			1.2					
1800				0.9			1.2		1.1					
1930				1.0			1.1							
2100					1.1	1.2		1.4	1.1					
2230			0.7		1.0	1.1		1.3	1.0					
2400	0.5	0.7	0.8	1.0	1.0	1.1	1.1	1.3	1.0	1.1	1.2	1.2	1.2	1.3
DATE	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25
TIME														
0130	1.3	1.3	1.4	1.6	1.7	1.7	1.6	1.5	1.6	1.6	1.5	1.5	1.6	1.6
0300			1.4	1.6		1.7								1.7
0430			1.5	1.7		1.8								
0600								1.5						
0730						1.8	1.6	1.6					1.6	
0900						1.7	1.7						1.7	
1030							1.8							
1200							1.7							
1330							1.7							
1500														
1630														
1800							1.7							
1930			1.5				1.6							
2100			1.6			1.7				1.6				
2230						1.6	1.6			1.5		1.5		
2400	1.3	1.3	1.6	1.7	1.7	1.6	1.5	1.6	1.6	1.5	1.5	1.6	1.7	1.7
DATE	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
TIME														
0130	1.7	1.6	1.5	1.4	1.5	1.5	1.5	1.6	1.7					
0300														
0430				1.4						1.7				
0600				1.5										
0730										Removed from water at 0430				
0900						1.5								
1030						1.4								
1200					1.5				1.6					
1330					1.4				1.7					
1500	1.7		1.5											
1630	1.6	1.6	1.4											
1800		1.5												
1930														
2100														
2230							1.5							
2400	1.6	1.5	1.4	1.5	1.4	1.4	1.6	1.7						

LAKE MICHIGAN - STATION 18. Depth 10 m.

Start 21 November 1963, 1300 CST; end 9 April 1964, 1225 CST.

Instrument serial no. 123, film record 20,101. Initial cal. 0°C; final cal. 0°C.

DATE	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28	11-29	11-30	12-1	12-2	12-3	12-4
TIME														
0130		10.1	10.0	9.4	9.3	9.0	9.3	9.0	8.9	8.9	8.6	8.3	7.5	7.5
0300								9.0		8.9	8.5	8.2		
0430				9.4	9.3	9.0		8.9		8.8		8.2		
0600			10.0	9.3	9.4	9.1	9.3	8.9				8.1		
0730			9.9		9.4	9.2	9.2	9.0						
0900			9.9		9.5		9.1							
1030			9.8	9.3	9.5	9.2								
1200		10.1	9.8	9.4	9.6	9.1						8.1		7.5
1330	10.1	10.0	9.7	9.5	9.5	9.0				8.8		8.0		7.6
1500			9.7	9.6	9.5	9.0				8.7		7.9		
1630			9.6	9.5	9.4	8.9						7.8		7.6
1800			9.6	9.4	9.3	8.9	9.1	9.0				7.7		
1930			9.5	9.4	9.1	9.0	9.0	8.9						
2100				9.3	9.0	9.1				8.7	8.5			
2230						9.2				8.6	8.4	7.7		
2400	10.1	10.0	9.5	9.3	9.0	9.3	9.0	8.9	8.9	8.6	8.4	7.6	7.5	7.6
DATE	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18
TIME														
0130	7.6	7.7	7.3	7.1	7.1	7.0	7.0	6.9	6.7	6.9	6.7	6.3	5.8	5.5
0300	7.7	7.6					7.0	7.0	6.7			6.2	5.7	5.5
0430							6.9		6.8					5.4
0600				7.1	7.1									5.7
0730		7.6		7.0	7.0							6.2	5.6	
0900		7.5						7.0			6.7	6.1	5.5	
1030				7.0				6.9			6.6		5.4	
1200		7.5		7.1					6.8		6.6			
1330		7.4							6.9	6.9	6.5	6.1		
1500		7.4	7.3							6.8	6.4	6.0	5.4	
1630		7.3	7.2					6.9		6.8			5.5	
1800			7.2					6.8		6.7				
1930			7.1								6.4	6.0		
2100								6.8			6.3	5.9		
2230								6.7						
2400	7.7	7.3	7.1	7.1	7.0	7.0	6.9	6.7	6.9	6.7	6.3	5.9	5.5	5.4
DATE	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1
TIME														
0130	5.4	5.1	5.0	5.3	5.3	5.1	5.1	4.9	4.9	4.7	4.7	4.6	4.7	4.5
0300				5.4						4.7		4.6		
0430				5.4						4.8		4.7	4.7	
0600				5.5				4.9	4.9				4.6	
0730				5.4				4.8	4.8				4.5	
0900				5.4				4.7	4.8				4.4	
1030		5.1	5.0	5.3	5.3				4.7	4.8				
1200		5.0	5.1		5.2			4.7		4.7				4.5
1330							5.1	4.8						4.4
1500							5.0							4.3
1630	5.4		5.1				5.0							
1800	5.3		5.2			5.1	4.9							
1930	5.2					5.2	4.9							
2100			5.2		5.2	5.2	4.8	4.8					4.4	4.3
2230	5.2		5.3		5.2	5.1		4.9					4.5	4.2
2400	5.1	5.0	5.3	5.3	5.1	5.1	4.8	4.9	4.7	4.7	4.7	4.7	4.5	4.2

LAKE MICHIGAN, STATION 18, 10 m continued.

DATE	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15
TIME														
0130	4.2	4.2	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.9	3.9	3.9	3.7
0300	4.2							3.9						
0430	4.3							4.0						
0600										3.9				3.7
0730										4.0				3.6
0900									3.9					3.5
1030									3.8					
1200				4.0						4.0				
1330				4.1						3.9				
1500		4.2												
1630		4.1		4.1					3.8					
1800				4.0					3.9				3.9	
1930													3.8	
2100														
2230		4.1					4.0							
2400	4.3	4.0	4.0	4.0	4.0	4.0	3.9	4.0	3.9	3.9	3.9	3.9	3.8	3.5
DATE	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29
TIME														
0130	3.4	3.2	3.2	3.0	3.0	3.0	3.1	3.0	2.9	2.9	2.9	2.9	2.9	2.9
0300			3.1			3.0								
0430						3.1								
0600					3.0									
0730	3.4				3.1									
0900	3.3													
1030	3.3													
1200	3.2													
1330								3.0						
1500								2.9						
1630														
1800														
1930														
2100							3.1							
2230							3.0							
2400	3.2	3.2	3.1	3.0	3.1	3.1	3.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9
DATE	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12
TIME														
0130	2.9	2.9	3.0	2.9	2.8	2.8	2.8	2.7	2.8	2.8	2.8	2.8	2.8	2.7
0300														
0430						2.8				2.8				
0600						2.9				2.7				
0730														
0900			3.0											
1030			2.9										2.8	2.7
1200	2.9												2.7	2.8
1330	3.0													
1500										2.7				
1630										2.8				
1800					2.8	2.9								
1930					2.7	2.8				2.8				
2100					2.7					2.7				
2230					2.8					2.7				
2400	3.0	2.9	2.9	2.9	2.8	2.8	2.8	2.7	2.8	2.8	2.8	2.8	2.7	2.8

LAKE MICHIGAN, STATION 18, 10 m continued.

DATE	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26
TIME														
0130	2.8	2.7	2.7	2.7	2.7	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.4	2.4
0300					2.7				2.5					
0430		2.7			2.6									
0600		2.8												
0730														
0900														2.4
1030					2.6			2.4				2.3		2.3
1200					2.5			2.5	2.5			2.4		
1330									2.4		2.4			
1500											2.3			
1630														
1800														
1930														
2100		2.8												
2230		2.7												
2400	2.8	2.7	2.7	2.7	2.5	2.4	2.4	2.5	2.4	2.4	2.3	2.4	2.4	2.3
DATE	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11
TIME														
0130	2.3	2.4	2.4	2.3	2.2	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.1
0300														
0430														
0600				2.3	2.2									
0730				2.2	2.1									
0900														
1030										2.2				
1200							2.1		2.2	2.1				
1330							2.2		2.1					
1500														
1630														
1800										2.1				
1930										2.2	2.2			
2100											2.1			
2230	2.3		2.4											
2400	2.4	2.4	2.3	2.2	2.1	2.1	2.2	2.2	2.1	2.2	2.1	2.1	2.1	2.1
DATE	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25
TIME														
0130	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2
0300														
0430														
0600														
0730														
0900														
1030			2.1											
1200			2.2											
1330														
1500														
1630														
1800											2.1			
1930											2.2			
2100														
2230														
2400	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2

LAKE MICHIGAN, STATION 18, 10 m continued.

DATE	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
TIME														
0130	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.0	2.1
0300													2.1	
0430	2.2						2.2							
0600	2.3						2.1							
0730								2.2				2.1		
0900								2.1				2.2		2.1
1030														2.2
1200	2.3					2.3								
1330	2.2					2.2								
1500							2.1					2.2		
1630							2.2					2.1		
1800														
1930									2.1					
2100									2.0					
2230									2.0			2.1		2.2
2400	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.0	2.1	2.3
DATE	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20	4-21	4-22
TIME														
0130	2.2													
0300														
0430														
0600														
0730														
0900														
1030														
1200	2.2													
1330														
1500	End													
1630														
1800														
1930														
2100														
2230														
2400														

LAKE MICHIGAN - STATION 18. Depth 15 m.

Start 21 November 1963, 1300 CST; end 9 April 1964, 1225 CST.

Instrument serial no. 365, film record 20,102. Initial cal. 0°C; final cal. -0.5°C.

DATE	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28	11-29	11-30	12-1	12-2	12-3	12-4
TIME														
0130		10.1	9.9	9.4	9.4	8.9	9.0	8.9	8.9	8.7	8.2	7.6	7.4	7.5
0300			9.9	9.5	9.3	9.0				8.7	8.2	7.5	7.4	
0430			9.8		9.3	9.0				8.6	8.1	7.6	7.5	
0600			9.8		9.1	9.1					8.0			
0730			9.7	9.5	9.0	9.2			8.9		7.9		7.5	
0900		10.1		9.4	8.9				8.8	8.6	7.8		7.6	7.5
1030		10.0		9.3			9.0			8.5	7.7			7.4
1200			9.7	9.3		9.2	8.9							7.4
1330	10.0		9.6	9.2	8.9	9.1					7.7			7.3
1500		10.0		9.2	9.0		8.9			8.5	7.6	7.6		
1630		9.9	9.6	9.3		9.1	9.0	8.9		8.4	7.6	7.5		
1800			9.5	9.4		9.0		9.0			7.5	7.5		
1930			9.4	9.4					8.8	8.4	7.6			
2100			9.3	9.5			9.0	9.0	8.7	8.3				7.3
2230	10.0			9.5	9.0		8.9	8.9		8.3			7.6	7.4
2400	10.1	9.9	9.3	9.4	8.9	9.0	8.9	8.9	8.7	8.2	7.6	7.5	7.5	7.4
DATE	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18
TIME														
0130	7.4	7.1	7.0	7.0	6.9	6.9	6.7	6.6	6.3	5.6	5.4	5.4	5.1	5.1
0300		7.0							6.2	5.5				5.2
0430										5.5				
0600		7.0								5.4				5.2
0730		7.1				6.9			6.2	5.4				5.3
0900						6.8			6.1	5.3		5.4		
1030						6.8		6.6	6.0			5.3	5.1	5.3
1200	7.4				6.9	6.7		6.5		5.3		5.2	5.0	5.4
1330	7.3				7.0					5.4		5.2		
1500									6.0	5.5		5.1		5.4
1630								6.5	5.9				5.0	5.3
1800	7.3							6.4	5.9				4.9	
1930	7.2			7.0					5.8				5.0	
2100				6.9	7.0		6.7	6.4	5.8	5.5			5.1	
2230		7.1	7.0		6.9		6.6	6.3	5.7	5.4				
2400	7.2	7.0	7.1	6.9	6.9	6.7	6.6	6.3	5.7	5.4	5.4	5.1	5.1	5.3
DATE	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1
TIME														
0130	5.3	5.2	5.1	4.9	4.7	4.6	4.6	4.7	4.5	4.4	4.3	4.1	4.1	4.1
0300				4.7					4.5					
0430				4.6					4.6					
0600				4.7	4.7									
0730				4.8	4.8									
0900					4.8									
1030					4.7			4.7			4.3			
1200			5.1					4.6			4.2			
1330			5.0	4.8				4.6	4.6					
1500			5.0	4.9			4.6	4.5	4.5					
1630		5.2	4.9				4.7	4.4						
1800		5.1	4.9	4.9	4.7		4.7		4.5					
1930			4.8	4.8	4.6		4.6		4.4					
2100							4.6	4.4			4.2			
2230	5.3		4.8	4.8			4.7	4.5			4.1			4.1
2400	5.2	5.1	4.9	4.7	4.6	4.6	4.7	4.5	4.4	4.4	4.1	4.1	4.1	4.0

LAKE MICHIGAN, STATION 18, 15 m continued.

DATE	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15
TIME														
0130	4.0	4.0	3.9	3.7	3.6	3.7	3.8	3.9	3.8	3.5	3.3	3.2	3.2	3.3
0300	4.0				3.7		3.9							
0430	4.1		3.9											
0600			3.8	3.7						3.5				
0730				3.6			3.9		3.8	3.4				
0900							4.0		3.7					
1030			3.8											
1200			3.7											
1330										3.4				3.3
1500								3.9		3.3				3.4
1630								3.8					3.2	
1800													3.3	
1930									3.7					
2100									3.6					
2230							4.0		3.5		3.3			
2400	4.1	4.0	3.7	3.6	3.7	3.7	3.9	3.8	3.5	3.3	3.2	3.2	3.3	3.4
DATE	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29
TIME														
0130	3.4	3.2	2.9	2.9	2.9	3.0	3.0	3.1	3.1	3.1	3.1	2.8	2.9	2.8
0300	3.4										3.1			
0430	3.3	3.2									3.0			
0600		3.1												
0730					2.9									
0900					3.0									
1030	3.3										3.0	2.8		
1200	3.2	3.1									2.9	2.9		
1330		3.0												
1500		3.0												
1630		2.9												
1800														
1930											2.9	2.9		
2100											2.8	3.0	2.9	
2230													2.8	
2400	3.2	2.9	2.9	2.9	3.0	3.0	3.0	3.1	3.1	3.1	2.8	3.0	2.8	2.8
DATE	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12
TIME														
0130	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.7	2.7	2.8	2.8
0300						2.8							2.8	
0430						2.9							2.7	
0600									2.7					
0730									2.8					
0900														
1030		2.8											2.7	
1200		2.7											2.6	2.8
1330													2.6	2.7
1500							2.8						2.7	
1630							2.9					2.7		
1800							2.9					2.8		
1930							2.8	2.8						
2100														
2230								2.8	2.8					
2400	2.8	2.7	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.7	2.7	2.8	2.7	2.7

LAKE MICHIGAN, STATION 18, 15 m continued.

DATE	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26
TIME														
0130	2.7	2.7	2.7	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.5	2.4
0430														
0600														
0730														
0900														
1030							2.5							
1200							2.4							
1330			2.7											
1500			2.6											
1630														
1800											2.5			
1930											2.4			
2100														
2230				2.6										
2400	2.7	2.7	2.6	2.5	2.5	2.4	2.5	2.5	2.5	2.5	2.4	2.4	2.5	2.4
DATE	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11
TIME														
0130	2.4	2.4	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.5	2.5	2.6	2.4
0300											2.4			
0430											2.5			
0600														
0730														
0900														
1030													2.6	
1200					2.3								2.5	
1330					2.4	2.3								
1500						2.4								
1630														
1800														
1930												2.5		
2100		2.4			2.4							2.6		
2230		2.3			2.3									
2400	2.4	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.5	2.5	2.6	2.4	2.4
DATE	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25
TIME														
0130	2.4	2.4	2.4	2.5	2.6	2.7	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.8
0300														
0430														2.8
0600														2.7
0730														2.7
0900														2.6
1030					2.6									2.5
1200					2.7									
1330														
1500			2.4										2.5	
1630			2.5	2.5		2.7					2.5		2.6	
1800				2.6		2.6					2.6		2.7	
1930														
2100						2.6								2.7
2230						2.5					2.6			2.8
2400	2.4	2.4	2.5	2.6	2.7	2.5	2.4	2.4	2.5	2.5	2.5	2.5	2.8	2.5

LAKE MICHIGAN, STATION 18, 15 m continued.

DATE	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
TIME														
0130	2.5	2.7	2.6	2.5	2.6	2.6	2.5	2.5	2.4	2.3	2.4	2.5	2.5	2.6
0300	2.6													
0430	2.7	2.7												
0600		2.6												
0730			2.6											
0900	2.7		2.5		2.6									
1030	2.8				2.5									
1200										2.3				
1330								2.5		2.4				
1500					2.5			2.4			2.4			
1630					2.6						2.5			
1800				2.5									2.5	
1930	2.8			2.6									2.6	
2100	2.7					2.6				2.4				
2230						2.5				2.3				
2400	2.7	2.6	2.5	2.6	2.6	2.5	2.5	2.4	2.3	2.4	2.5	2.5	2.6	2.6
DATE	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20	4-21	4-22
TIME														
0130	2.6													
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330	2.6													
1500														
1630	End of													
1800	record													
1930														
2100														
2230														
2400														

LAKE MICHIGAN - STATION 18. Depth 22 m.

Start 21 November 1963, 1300 CST; end 9 April 1964, 1225 CST.

Instrument serial no. 364, film record 20,103. Initial cal. 0°C; final cal. Indet.

DATE	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28	11-29	11-30	12-1	12-2	12-3	12-4
TIME														
0130		11.0	10.9	10.4	10.3	10.0	10.0	10.0	10.0	9.7	9.1	8.6	8.5	8.3
0300										9.7	9.0			
0430					10.3					9.6			8.5	
0600			10.9		10.2					9.6			8.3	
0730			10.8		10.2				10.0	9.5	9.0			
0900			10.7		10.1				9.9	9.5	8.9	8.6		
1030			10.6	10.4	10.0				9.8	9.4	8.8	8.5		
1200				10.3							8.7			
1330	11.0	11.0									8.7			8.3
1500		10.9								9.4	8.6			8.4
1630										9.3				
1800			10.6						9.8	9.3				
1930			10.5						9.7	9.2				
2100			10.4							9.1				
2230														
2400	11.0	10.9	10.4	10.3	10.0	10.0	10.0	10.0	9.7	9.1	8.6	8.5	8.3	8.4
DATE	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18
TIME														
0130	8.4	8.3	8.3	8.1	8.0	7.9	7.9	7.9	7.8	6.8	6.4	6.3	6.0	6.0
0300			8.1						7.8	6.7	6.3			
0430									7.7	6.6				
0600									7.7	6.5			6.0	
0730					8.0				7.6	6.4			5.9	
0900					7.9				7.5			6.3		
1030				8.1					7.3			6.2		
1200				8.0					7.2			6.1		
1330									7.1			6.1		
1500												6.0		
1630	8.4													
1800	8.3								7.1					
1930									7.0					
2100														
2230									7.0				5.9	
2400	8.3	8.3	8.1	8.0	7.9	7.9	7.9	7.9	6.9	6.4	6.3	6.0	6.0	6.0
DATE	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1
TIME														
0130	6.0	5.9	5.9	5.7	5.8	5.7	5.7	5.7	5.7	5.5	5.5	5.4	5.2	5.1
0300												5.4		
0430												5.3		
0600														
0730					5.8						5.5			
0900					5.7						5.4		5.2	
1030									5.7				5.1	
1200									5.6					
1330														
1500			5.9											
1630			5.8	5.7										
1800			5.7	5.8					5.6			5.3		
1930									5.5			5.2		
2100	6.0													
2230	5.9													
2400	5.9	5.9	5.7	5.8	5.7	5.7	5.7	5.7	5.5	5.5	5.4	5.2	5.1	5.1

LAKE MICHIGAN, STATION 18, 22 m continued.

DATE	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15
TIME														
0130	5.1	5.1	5.1	5.0	4.9	4.9	4.9	4.9	4.8	4.5	4.3	4.2	4.2	4.1
0430														4.1
0600														4.2
0730									4.8					
0900									4.7					
1030														
1200														
1330			5.1							4.5			4.2	
1500			5.0							4.4			4.1	
1630								4.9			4.3			
1800								4.8			4.4			
1930				5.0					4.7		4.4			
2100				4.9					4.6		4.3			
2230										4.4	4.3			4.2
2400	5.1	5.1	5.0	4.9	4.9	4.9	4.9	4.8	4.6	4.3	4.2	4.2	4.1	4.1
DATE	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29
TIME														
0130	4.1	4.1	4.1	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9
0300			4.0											
0430						4.0								
0600						4.1								
0730														
0900						4.1								
1030						4.0								
1200														
1330														
1500														
1630														3.9
1800														3.8
1930														
2100											4.0			
2230											3.9			
2400	4.1	4.1	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.8
DATE	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12
TIME														
0130	3.8	3.8	3.8	3.7	3.7	3.6	3.6	3.6	3.6	3.6	3.5	3.5	3.4	3.4
0300														
0430														
0600														
0730														
0900														
1030														
1200					3.7							3.5		
1330					3.6							3.4		
1500														
1630														
1800														
1930										3.6				3.4
2100										3.5				3.3
2230			3.8											3.2
2400	3.8	3.8	3.7	3.7	3.6	3.6	3.6	3.6	3.6	3.5	3.5	3.4	3.4	3.2

LAKE MICHIGAN, STATION 18, 22 m continued.

DATE TIME	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26
0130	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.0	3.0	3.0	3.0
0300									3.2					
0430									3.1					
0600														
0730														
0900					3.2									
1030					3.1									
1200														
1330										3.1				
1500					3.1					3.0				
1630					3.2									
1800														
1930														
2100														
2230														
2400	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.0	3.0	3.0	3.0	3.0
DATE TIME	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11
0130	3.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
0300	2.9													
0430														
0600														
0730														
0900														
1030														2.9
1200														3.0
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.0
DATE TIME	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25
0130	3.0	3.0	2.9	2.9	2.9	3.0	2.9	2.9	2.9	2.9	2.9	3.0	2.9	3.0
0300	2.9				2.9									
0430					3.0									
0600					2.9									
0730														
0900					3.0									
1030	2.9				2.9							3.0		3.0
1200	3.0											2.9		2.9
1330														
1500				2.9										
1630				3.0										
1800				3.0										
1930				2.9										
2100					2.9									2.9
2230					3.0									3.0
2400	3.0	3.0	2.9	2.9	3.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.0	2.9

LAKE MICHIGAN, STATION 18, 22 m continued.

DATE	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
TIME														
0130	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.0	2.9	2.9
0300										2.9		3.0		
0430										3.0		2.9		
0600														
0730														
0900										3.0				
1030										2.9				
1200														
1330														
1500														
1630											2.9			
1800											3.0			
1930														
2100														
2230														
2400	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.0	2.9	2.9	2.9
DATE	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20	4-21	4-22
TIME														
0130	2.9													
0300														
0430														
0600														
0730														
0900														
1030														
1200	2.9													
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400														

LAKE MICHIGAN - STATION 18. Depth 30 m.

Start 21 November 1963, 1300 CST; end 9 April 1964, 1225 CST.

Instrument serial no. 283, film record 20,104. Initial cal. 0°C; final cal. Indet.

DATE	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28	11-29	11-30	12-1	12-2	12-3	12-4
TIME														
0130		10.3	10.1	9.5	8.7	9.0	7.8	9.0	9.1	8.9	8.3	7.8	7.8	8.0
0300			10.0	9.6	7.8	9.1	9.2	9.0	9.1		8.3		7.8	
0430			9.8	9.7	7.3	9.2	9.3	9.1	9.0		8.2		7.7	
0600			9.5	9.6	8.5	9.3					8.1	7.8	7.6	8.0
0730			8.8	9.0	9.0	9.3	9.3			8.9	8.0	7.9	7.3	7.9
0900		10.3	9.4	8.0		9.2	9.2			8.8	8.0		7.5	7.9
1030		8.9	9.8	7.1	9.0	9.3			9.0		7.9		7.8	7.8
1200		10.0	9.8	8.0	9.1	9.2			8.9		7.9	7.9	7.9	7.8
1330	10.4	10.1	9.7	7.5	9.2	9.6				8.8	7.8	7.1	8.0	7.7
1500	10.3	10.0	9.7	8.9	9.3	9.4				8.7		7.8		
1630	10.1		9.6	9.0	9.5	9.5				8.6				
1800	10.3	10.0	9.2	9.4	9.6	9.5	9.2			8.6				
1930		10.1	8.5	9.5	9.0	9.4	9.1			8.5		7.8		7.7
2100		10.1	8.0	9.7	7.2	9.3				8.4		7.7		7.8
2230		10.0	9.5	9.8	8.7	9.2	9.1			8.4	7.8	7.8		
2400	10.3	10.1	9.5	9.5	8.9	9.2	9.0	9.1	8.9	8.3	7.7	7.8	8.0	7.8
DATE	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18
TIME														
0130	7.8	7.4	7.2	7.4	7.2	7.2	7.0	7.0	7.0	5.9	5.8	5.7	5.4	5.7
0300	7.7					7.2				6.9	5.8	5.7	5.4	5.7
0430				7.4	7.2	7.0				6.8	5.8		5.5	5.8
0600				7.3	7.0					6.8	5.7			
0730		7.4		7.2	7.1					6.6		5.6		5.8
0900		7.5		7.1	7.2					6.4				5.9
1030				7.2	7.3					6.3		5.6		5.8
1200	7.7		7.2							6.2	5.7	5.5		5.7
1330	7.6		7.3								5.8			
1500	7.5		7.1											
1630			7.3											
1800										6.2	5.8		5.5	
1930	7.5	7.5	7.3							6.1	5.9		5.6	
2100	7.4	7.4	7.4							6.0	5.9	5.4	5.6	
2230		7.4								6.0	5.8		5.7	
2400	7.4	7.3	7.4	7.2	7.3	7.0	7.0	7.0	5.9	5.8	5.7	5.4	5.7	5.7
DATE	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1
TIME														
0130	5.7	5.6	5.5	5.1	5.1	5.0	5.0	5.0	5.0	4.9	4.9	4.7	4.5	4.5
0300												4.8	4.5	
0430					5.1								4.4	
0600					5.0								4.4	
0730												4.7	4.4	4.5
0900												4.6	4.3	4.6
1030		5.6	5.4	5.1									4.4	
1200		5.5	5.3	5.2									4.4	
1330	5.7		5.2									4.6	4.5	4.6
1500	5.6											4.5		4.5
1630				5.2										
1800		5.5		5.1										
1930		5.4												
2100			5.2						5.0					
2230			5.1						4.9					
2400	5.6	5.4	5.1	5.1	5.0	5.0	5.0	5.0	4.9	4.9	4.8	4.5	4.5	4.5

LAKE MICHIGAN, STATION 18, 30 m continued.

DATE	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15
TIME														
0130	4.5	4.5	4.4	4.3	4.3	4.2	4.2	4.2	4.0	4.0	3.9	3.8	3.8	3.8
0300										4.0				
0430										3.9				
0600			4.4									3.8		
0730			4.3								3.9	3.7		
0900											3.8			
1030					4.3									
1200				4.2				4.2						
1330								4.1						
1500												3.7		
1630												3.8		
1800					4.3									
1930		4.5			4.2									3.8
2100		4.4												3.7
2230				4.2										
2400	4.5	4.4	4.3	4.3	4.2	4.2	4.2	4.1	4.0	3.9	3.8	3.8	3.8	3.7
DATE	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29
TIME														
0130	3.7	3.5	3.4	3.4	3.4	3.4	3.3	3.4	3.5	3.6	3.2	3.1	3.1	3.0
0300														
0430								3.4						
0600								3.5	3.5					
0730						3.4		3.6						
0900		3.5		3.4		3.3				3.6				
1030		3.4		3.3						3.5				
1200												3.1		
1330												3.2		
1500				3.3						3.5				3.0
1630				3.4			3.3			3.4	3.2			3.1
1800	3.7						3.4			3.4	3.1	3.2		
1930	3.6									3.3		3.1		
2100	3.5									3.3				3.1
2230										3.2				3.0
2400	3.5	3.4	3.4	3.4	3.4	3.3	3.4	3.5	3.6	3.2	3.1	3.1	3.1	3.0
DATE	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12
TIME														
0130	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.8	2.9	2.8	2.8
0300														
0430														
0600														
0730														
0900														
1030														2.8
1200														2.7
1330														
1500										2.9				2.7
1630										2.8				2.8
1800	3.0													
1930	3.1										2.8			
2100	3.0										2.9			
2230														
2400	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.8	2.9	2.9	2.8	2.8

LAKE MICHIGAN, STATION 18, 30 m continued.

DATE TIME	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26
0130	2.8	2.8	2.8	2.8	2.8	2.9	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.5
0300											2.7			
0430											2.6			
0600					2.8						2.7			
0730		2.8			2.9								2.7	
0900		2.9											2.6	
1030														
1200														
1330								2.8					2.6	
1500						2.9		2.7					2.5	
1630						2.8								
1800														
1930														
2100		2.9												
2230		2.8												
2400	2.8	2.8	2.8	2.8	2.9	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.5	2.5
DATE TIME	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11
0130	2.5	2.6	2.6	2.6	2.7	2.6	2.5	2.5	2.5	2.6	2.5	2.5	2.5	2.5
0300						2.6								
0430						2.5								
0600														
0730														
0900						2.5								
1030						2.6								
1200									2.5					
1330									2.6					2.5
1500					2.7									2.6
1630	2.5			2.6	2.6					2.6				
1800	2.6			2.7						2.5				
1930														
2100														
2230														
2400	2.6	2.6	2.6	2.7	2.6	2.6	2.5	2.5	2.6	2.5	2.5	2.5	2.5	2.6
DATE TIME	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25
0130	2.6	2.6	2.6	2.6	2.8	2.7	2.6	2.4	2.4	2.5	2.5	2.5	2.5	2.6
0300									2.5					2.5
0430				2.6		2.7							2.5	
0600	2.6			2.7		2.6	2.6						2.6	
0730	2.5						2.5						2.7	
0900				2.6							2.5			
1030				2.7							2.6			
1200	2.5				2.7								2.7	
1330	2.6			2.7									2.8	
1500				2.6										
1630											2.6			2.5
1800											2.5		2.8	2.6
1930													2.7	2.7
2100													2.7	
2230					2.7								2.6	
2400	2.6	2.6	2.6	2.8	2.7	2.6	2.5	2.4	2.5	2.5	2.5	2.5	2.6	2.7

LAKE MICHIGAN, STATION 18, 30 m continued.

DATE	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
TIME														
0130	2.7	2.6	2.6	2.5	2.4	2.3	2.3	2.3	2.3	2.3	2.5	2.5	2.5	2.5
0300														
0430														
0600										2.3				
0730										2.4				
0900	2.7	2.6		2.5										
1030	2.6	2.7		2.4										
1200														
1330														
1500														
1630		2.7	2.6		2.4									
1800		2.6	2.5		2.3									
1930														
2100														
2230														
2400	2.6	2.6	2.5	2.4	2.3	2.3	2.3	2.3	2.3	2.4	2.5	2.5	2.5	2.5
DATE	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20	4-21	4-22
TIME														
0130	2.5													
0300														
0430														
0600														
0730														
0900														
1030														
1200	2.5													
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400														

LAKE MICHIGAN - STATION 18. Depth 60 m.

Start 21 November 1963, 1300 CST; end 9 April 1964, 1225 CST.

Instrument serial no. 250, film record 20,105. Initial cal. 1.0°C; final cal. Ass. 0°C.

DATE TIME	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28	11-29	11-30	12-1	12-2	12-3	12-4
0130		3.5	3.3	3.3	3.6	3.2	3.5	3.5	3.3	3.4	3.3	3.4	3.3	3.4
0300						3.2	3.5		3.3		3.3		3.1	3.4
0430			3.3			3.3	3.6		3.2		3.2			3.5
0600			3.4		3.6	3.5	3.5				3.2		3.1	3.4
0730				3.3	3.4	3.4	3.4				3.3		3.3	3.3
0900		3.5		3.4	3.4	3.3			3.2		3.3	3.4	3.2	3.2
1030		3.4			3.5				3.4		3.4	3.3	3.3	3.3
1200			3.4	3.4					3.5			3.5	3.2	3.5
1330	3.7		3.3	3.3	3.5	3.3						3.5		3.6
1500	3.6	3.4			3.6	3.2						3.6	3.2	3.6
1630	3.6	3.3							3.5		3.4		3.3	3.5
1800	3.5	3.3		3.3	3.6	3.2			3.4		3.5	3.6	3.4	3.9
1930	3.5	3.4		3.5	3.4	3.3	3.4				3.4		3.7	3.7
2100	3.6				3.4	3.3	3.5					3.8		3.7
2230	3.5				3.3	3.4								3.6
2400	3.5	3.4	3.3	3.5	3.3	3.4	3.5	3.5	3.4	3.4	3.4	3.8	3.4	3.6

DATE TIME	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18
0130	3.6	3.0	3.8	3.2	3.0	3.1	3.4	3.1	3.3	3.4	4.1	4.0	4.8	3.5
0300	3.6		3.7	3.2			3.4	3.1			4.7	5.2	5.0	3.5
0430	3.3		3.6	3.1			3.5	3.0			4.9	4.9	5.2	3.6
0600	3.1		3.5	3.2	3.0	3.1					3.9	5.2	5.2	3.7
0730		3.0	3.5	3.3	3.1	3.2				3.4	3.6	5.0	5.0	3.9
0900		3.1	3.4				3.5	3.0		3.5	3.7	5.3	5.0	4.2
1030	3.1		3.4	3.3			3.4	3.1		3.7	4.2	5.1	4.8	3.8
1200	3.2		3.3	3.2		3.2	3.4			3.7	5.1	4.7	4.5	3.6
1330			3.2	3.1		3.3	3.3			3.6	5.2	4.0	4.0	3.5
1500	3.2	3.1	3.1	3.1			3.2	3.1	3.3	3.5	5.0	3.9	3.8	3.4
1630	3.1	3.0		3.3	3.1		3.2	3.2	3.2		4.9	4.1	3.7	
1800	3.1	3.0		3.3	3.0		3.3			3.5	3.7	4.4	3.8	
1930	3.2	3.2		3.2		3.3				3.8	3.8	4.4	3.6	
2100		3.2	3.1	3.1		3.4			3.2	3.9	3.6	4.5	3.6	
2230	3.2	3.6	3.2	3.1	3.0				3.3	3.9	3.6	4.6	3.5	
2400	3.1	3.6	3.2	3.0	3.1	3.4	3.3	3.2	3.4	3.7	3.5	4.7	3.5	3.4

DATE TIME	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1
0130	3.4	4.0	4.3	4.3	4.0	3.9	4.0	4.4	4.3	4.0	3.4	3.4	3.1	3.1
0300		4.3		4.2	4.0	3.9		4.4						
0430	3.4	4.6		4.1	3.9	3.8		4.3				3.4		
0600	3.6	4.4	4.3	4.3	3.8	3.9			4.3			3.3		
0730	3.7	4.2	4.4		3.9		4.0		4.2					
0900	3.5	4.4			3.8	3.9	4.1							3.1
1030	3.5	4.5	4.4	4.3	3.7	4.0	4.2					3.3		3.0
1200	3.4	3.9	4.3	4.2	3.4		4.2			4.0		3.2		
1330	3.6	4.3		4.0	3.5		4.3			3.9				
1500	3.8			4.3	3.9		4.4		4.2	3.9				
1630	4.4			4.0	4.0		4.4		4.1	3.8				
1800	4.1			4.1	4.0		4.5			3.7				
1930	3.9			4.2	3.9		4.5		4.1	3.6		3.2		
2100	4.1			4.3	3.9		4.6		4.0	3.4		3.1		
2230	4.3			4.2	3.8		4.5							
2400	4.4	4.3	4.3	4.1	3.8	4.0	4.5	4.3	4.0	3.4	3.4	3.1	3.1	3.0

LAKE MICHIGAN, STATION 18, 60 m continued.

DATE	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15
TIME														
0130	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.9	2.9	2.6
0300														
0430													2.9	
0600												2.9	2.8	
0730												2.8		
0900														2.6
1030														2.5
1200													2.8	
1330													2.7	
1500														
1630									3.0					
1800									2.9					
1930												2.8	2.7	
2100												2.9	2.6	
2230														
2400	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.9	2.9	2.6	2.5
DATE	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29
TIME														
0130	2.3	2.4	2.4	2.2	2.1	2.1	2.5	2.2	2.0	2.0	2.0	2.0	2.0	2.0
0300														
0430	2.3													
0600	2.5													
0730		2.4				2.1								
0900		2.3				2.2	2.5	2.2						
1030							2.4	2.1						
1200		2.3				2.2								
1330	2.5	2.4				2.3								
1500	2.4					2.3								
1630			2.4			2.4								
1800	2.4							2.1						
1930	2.3				2.2		2.4	2.0						
2100					2.1		2.3							2.0
2230														1.9
2400	2.3	2.4	2.3	2.1	2.1	2.4	2.3	2.0	2.0	2.0	2.0	2.0	2.0	1.9
DATE	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12
TIME														
0130	1.9	1.9	1.9	2.0	2.0	2.0	2.0	1.8	1.9	1.8	1.8	1.7	1.7	1.8
0300							2.0		1.9		1.8		1.7	
0430							1.9		2.0		1.7		1.8	
0600												1.8		1.8
0730														1.7
0900									2.0	1.8				
1030									1.9			1.8		
1200			1.9									1.7		
1330			2.0											
1500														
1630							1.9			1.9				
1800							1.8			1.8				
1930		1.9						1.8	1.8					
2100		2.0						1.9						
2230														
2400	1.9	2.0	2.0	2.0	2.0	2.0	1.8	1.9	1.8	1.8	1.7	1.7	1.8	1.7

LAKE MICHIGAN, STATION 18, 60 m continued.

DATE TIME	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26
0130	1.7	1.8	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.5	1.5	1.6	1.7	1.6
0300												1.6		
0430												1.7		
0600		1.8												
0730		1.7												
0900	1.7											1.7		1.6
1030	1.8										1.5	1.8		1.5
1200											1.6			
1330											1.6	1.8	1.7	
1500									1.6		1.7	1.7	1.6	
1630									1.5					
1800														
1930												1.7		
2100												1.6		
2230														
2400	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.5	1.5	1.6	1.7	1.6	1.5
DATE TIME	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11
0130	1.5	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.3	1.3	1.3	1.3	1.3
0300	1.5													
0430	1.4													
0600														
0730														
0900														
1030														
1200	1.4													
1330	1.3							1.3	1.4					
1500								1.4	1.3					1.3
1630														1.2
1800		1.3												
1930		1.2												
2100														
2230		1.2												
2400	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.3	1.3	1.3	1.3	1.3	1.2
DATE TIME	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25
0130	1.2	1.2	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800				1.2	1.1									
1930				1.1	1.0									
2100														
2230														
2400	1.2	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

LAKE MICHIGAN, STATION 18, 60 m continued.

DATE	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
TIME														
0130	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.0	1.0	1.1	1.1	1.1	1.1
0300										1.0				
0430										0.9				
0600														
0730														
0900				1.0										
1030				1.1										
1200														
1330														
1500														
1630														
1800										0.9				
1930										1.0				
2100														
2230														
2400	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.1	1.1	1.1	1.1
DATE	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20	4-21	4-22
TIME														
0130	1.1													
0300														
0430														
0600														
0730														
0900														
1030														
1200	1.1													
1330														
1500	End of													
1630	record													
1800														
1930														
2100														
2230														
2400														

LAKE MICHIGAN - STATION 20. Depth 10 m.

Start 7 December 1963, 0930 CST; end 15 April 1964, 1830 CST.

Instrument serial no. 160, film record 20,113. Initial cal. 0.5°C; final cal. 0.3°C.

DATE	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20
TIME														
0130		7.1	7.2	7.0	7.0	7.5	7.3	7.1	6.3	6.2	5.7	5.6	5.1	5.0
0300			7.2	7.0				7.1	6.2		5.7	5.5		
0430			7.1	6.9				7.0			5.6	5.5		
0600		7.1						6.8				5.4	5.1	
0730		7.2					7.3	6.7				5.3	5.0	
0900		7.2	7.1				7.2		6.2			5.2		
1030	6.8	7.3	7.2	6.9					6.1					5.0
1200	6.9			7.0	7.0					6.2	5.6			4.9
1330	7.0				7.1					6.1	5.7			
1500	7.1		7.2		7.2				6.1	6.0				
1630	7.2		7.1		7.3				6.3	5.9		5.2		
1800					7.3				6.4	5.9		5.1		
1930					7.4					5.8		5.0		
2100			7.1		7.4	7.5	7.2	6.7	6.4	5.8		5.0		
2230			7.0		7.5	7.4	7.1	6.6	6.3	5.7		5.1		
2400	7.2	7.3	7.0	7.0	7.5	7.4	7.1	6.5	6.2	5.7	5.7	5.1	5.0	4.9

DATE	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3
TIME														
0130	4.9	4.5	4.5	4.4	4.3	4.2	4.2	4.1	3.9	3.7	3.7	3.7	3.8	3.7
0300	4.9			4.3	4.2	4.1	4.3		3.8	3.7			3.7	
0430	4.8	4.5					4.3			3.6				3.7
0600	4.8	4.4					4.2	4.1	3.8					3.6
0730	4.7				4.2	4.1		4.0	3.7	3.6				
0900	4.6				4.1	4.2		4.0		3.5				
1030	4.5							4.1						
1200												3.7		
1330							4.2					3.8		
1500					4.1		4.1		3.7	3.5			3.7	
1630					4.2				3.8	3.6			3.8	3.6
1800	4.5	4.4						4.1						3.7
1930	4.6	4.3						4.0		3.6				
2100		4.4								3.7				
2230		4.5						4.0	3.8					
2400	4.6	4.5	4.5	4.3	4.2	4.2	4.1	3.9	3.7	3.7	3.7	3.8	3.8	3.7

DATE	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17
TIME														
0130	3.8	3.7	3.6	3.7	3.7	3.5	3.5	3.5	3.5	3.0	3.0	2.7	3.0	3.0
0300							3.4	3.5	3.5		3.0		2.9	
0430				3.7			3.4	3.4	3.4		3.1		2.8	3.0
0600	3.8		3.6	3.6	3.7		3.3		3.4	3.0				2.9
0730	3.7		3.5	3.5	3.6				3.3	2.9				
0900			3.5		3.5				3.3			2.7		
1030			3.6				3.3		3.2		3.1	2.8		
1200				3.5			3.4				2.9	2.9		
1330			3.6	3.6							2.8	3.0	2.8	
1500			3.7		3.5							3.1	2.7	
1630				3.6	3.6									
1800			3.7	3.7									2.7	
1930			3.8										2.8	
2100	3.7								3.2			3.1	2.8	
2230	3.6								3.1			3.0	2.9	
2400	3.6	3.7	3.8	3.7	3.6	3.5	3.4	3.4	3.1	2.9	2.8	3.0	2.9	2.9

LAKE MICHIGAN, STATION 20, 10 m continued.

DATE	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31
TIME														
0130	3.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.7	1.6	1.8	2.0	2.3	2.3
0300									2.7			2.0		2.3
0430							2.9	2.9	2.6	1.6		2.1		2.2
0600				2.9			2.8	2.8	2.6	1.7		2.2		2.1
0730			2.9	2.8					2.5	1.8	1.8	2.3		
0900			2.8		2.9			2.8	2.3	1.9	1.9			
1030					2.8			2.7	2.0	1.9				
1200			2.8					1.9	2.0				2.3	
1330	3.0		2.9				2.8	1.9	2.0				2.2	2.1
1500	2.9				2.8		2.9		2.0	1.9				2.2
1630				2.8	2.9				2.2	1.9			2.2	2.2
1800				2.9				2.7	2.0	1.8			2.3	2.3
1930								2.8	1.9		1.9			
2100									1.8		2.0			
2230									1.6					
2400	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.8	1.6	1.8	2.0	2.3	2.3	2.3
DATE	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14
TIME														
0130	2.3	1.9	1.8	1.6	2.1	2.0	2.0	2.1	1.9	1.8	1.8	1.9	2.0	2.0
0300	2.3													1.9
0430	2.2						2.0							
0600	2.2		1.8				1.9							
0730	2.1		1.7						1.9					
0900	2.0		1.7						1.8					
1030	1.9		1.6	1.6	2.1			2.1						
1200	1.8			1.7	2.0			2.0						
1330				1.7										
1500				1.8								1.9		1.9
1630				1.9								2.0		2.0
1800	1.8						1.9	2.0						
1930	1.9						2.0	1.9						
2100				1.9			2.0				1.8			
2230		1.9	1.6	2.0			2.1				1.9			
2400	1.9	1.8	1.5	2.1	2.0	2.0	2.1	1.9	1.8	1.8	1.9	2.0	2.0	2.0
DATE	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28
TIME														
0130	2.0	1.9	1.9	1.8	1.9	1.8	1.7	1.6	1.7	1.7	1.7	1.7	1.7	1.7
0300														1.6
0430						1.8	1.7						1.7	
0600					1.9	1.7	1.6						1.6	
0730					1.8									
0900														
1030														
1200														
1330				1.8										
1500				1.9									1.6	
1630													1.7	
1800														
1930			1.9					1.6						
2100	2.0		1.8					1.7						
2230	1.9													
2400	1.9	1.9	1.8	1.9	1.8	1.7	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.6

LAKE MICHIGAN, STATION 20, 10 m continued.

DATE	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	3-12	3-13
TIME														
0130	1.7	1.7	1.7	1.7	1.6	1.6	1.3	1.5	1.5	1.7	1.3	1.5	1.6	1.6
0300							1.4			1.6		1.4	1.5	1.6
0430							1.4				1.3		1.4	1.5
0600							1.3				1.4			
0730				1.7			1.3							
0900				1.6		1.6	1.2		1.5					
1030						1.5			1.6					
1200							1.2						1.4	
1330							1.3		1.6			1.4	1.5	
1500							1.4		1.7	1.6	1.4	1.5	1.6	1.5
1630						1.5	1.4			1.7	1.5	1.6	1.7	1.6
1800						1.4	1.5			1.5				
1930						1.4				1.2				
2100						1.3				1.2				
2230										1.3			1.7	
2400	1.7	1.7	1.7	1.6	1.6	1.3	1.5	1.5	1.7	1.3	1.5	1.6	1.6	1.6
DATE	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25	3-26	3-27
TIME														
0130	1.6	1.6	1.4	1.5	1.4	1.4	1.4	1.4	1.1	1.3	1.6	1.7	1.7	1.7
0300	1.6	1.6		1.5				1.3						
0430	1.5	1.5		1.4		1.4								1.7
0600		1.5	1.4	1.4	1.4	1.3	1.4			1.3				1.6
0730		1.4	1.3	1.3	1.3		1.3			1.4				
0900								1.3	1.1	1.4				
1030								1.2	1.2	1.5				
1200			1.3								1.6			1.6
1330			1.4								1.7			1.7
1500				1.3	1.4	1.3	1.4							
1630	1.5			1.4		1.4								
1800	1.6		1.4						1.2					
1930			1.5						1.3					
2100								1.2		1.5				
2230								1.1		1.6				
2400	1.6	1.4	1.5	1.4	1.4	1.4	1.4	1.1	1.3	1.6	1.7	1.7	1.7	1.7
DATE	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10
TIME														
0130	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.7	1.7	1.7	1.4	1.4
0300								1.7	1.6	1.7	1.7	1.6		
0430								1.6	1.5	1.6	1.6	1.5		
0600												1.5		
0730												1.4		
0900								1.6						
1030								1.5			1.6			1.4
1200											1.7			1.5
1330									1.5	1.6				
1500								1.5	1.6	1.7				
1630								1.6						
1800									1.6				1.4	
1930									1.7				1.5	
2100													1.5	
2230													1.4	
2400	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.7	1.7	1.7	1.4	1.4	1.5

LAKE MICHIGAN, STATION 20, 10 m continued.

DATE TIME	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20	4-21	4-22	4-23	4-24
0130	1.5	1.7	1.5	1.7	1.6									
0300		1.7		1.7										
0430		1.6		1.6										
0600			1.5	1.5										
0730			1.6											
0900														
1030														
1200	1.5		1.6											
1330	1.6	1.6	1.7											
1500		1.5		1.5										
1630				1.6										
1800	1.6				1.6									
1930	1.7													
2100					End of record									
2230														
2400	1.7	1.5	1.7	1.6										

LAKE MICHIGAN - STATION 20. Depth 15 m.

Start 7 December 1963, 0930 CST; 15 April 1964, 1830 CST.

Instrument serial no. 300, film record 20,114. Initial cal. 0°C; final cal. 0.3°C.

DATE TIME	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20
0130		8.3	8.4	8.0	8.0	8.7	8.4	8.1	7.5	7.6	7.0	6.9	6.3	6.1
0300									7.6	7.5		6.8		
0430		8.3						8.1	7.5			6.7		
0600		8.4						8.0						
0730													6.3	
0900			8.4					8.0				6.7	6.2	
1030	8.0	8.4	8.3			8.7	8.4	7.9		7.5		6.6		
1200		8.5				8.6	8.3			7.4		6.6		
1330	8.3						8.3			7.4		6.5		
1500	8.3		8.3	8.0			8.2		7.5	7.3		6.4		
1630	8.4		8.2	8.1	8.0			7.9	7.6	7.3		6.4		6.1
1800	8.4		8.2	8.1	8.1			7.8	7.7	7.2		6.3	6.2	6.0
1930	8.5	8.5	8.1	8.0	8.3			7.8	7.7	7.1			6.1	
2100		8.4			8.4		8.2	7.7	7.8	7.1				
2230	8.5				8.5	8.6	8.1	7.6	7.9	7.0	7.0			
2400	8.4	8.4	8.1	8.0	8.6	8.5	8.1	7.5	7.7	7.0	6.9	6.3	6.1	6.0

LAKE MICHIGAN, STATION 20, 15 m continued.

DATE TIME	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3
0130	6.0	5.8	5.8	5.7	5.4	5.3	5.5	5.5	5.3	5.1	5.0	4.9	4.9	4.8
0300				5.7					5.2	5.1				
0430	6.0			5.6						5.0				
0600	5.9							5.5						
0730	5.8					5.3		5.4					4.9	
0900	5.7					5.4							4.8	
1030														
1200		5.8												
1330		5.7	5.8	5.6										
1500		5.8	5.7	5.5										
1630											5.0			
1800	5.7							5.4			4.9			
1930	5.8					5.4		5.3	5.2					
2100	5.7					5.5			5.1					
2230	5.8			5.5	5.4									
2400	5.8	5.8	5.7	5.4	5.3	5.5	5.5	5.3	5.1	5.0	4.9	4.9	4.8	4.8
DATE TIME	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17
0130	4.8	4.8	4.7	4.8	4.8	4.8	4.7	4.6	4.6	4.0	4.1	4.0	4.2	4.0
0300		4.8	4.8							4.2	4.1			
0430		4.7								4.1	4.2			
0600										4.1	4.3			
0730								4.6		4.0				
0900								4.5		4.1				
0900						4.7								
1200						4.8	4.6				4.3	4.0		
1330						4.7			4.6		4.2	4.1		
1500									4.5		4.0	4.1	4.2	
1630												4.2	4.1	
1800												4.3		
1930														4.0
2100									4.5					4.1
2230								4.5	4.2				4.1	
2400	4.8	4.7	4.8	4.8	4.8	4.7	4.6	4.6	4.2	4.1	4.0	4.3	4.0	4.1
DATE TIME	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31
0130	4.1	4.0	4.0	4.0	3.9	3.9	4.0	3.9	3.9	2.5	2.8	3.4	3.0	3.2
0300									3.9	2.5				3.1
0430									3.8	2.6				3.0
0600									3.7	2.7				2.8
0730	4.1								3.6	2.8		3.4		
0900	4.0				3.9				3.5	2.9		3.3		
1030					4.0				3.3	3.0				
1200									2.9		2.8		3.0	
1330									2.8		3.4	3.3	3.1	
1500									2.8	3.0		3.4	3.2	
1630					4.0				3.1	2.9				
1800					3.9				3.0	2.8				
1930				4.0		3.9			2.8			3.4		2.8
2100				3.9		4.0	4.0		2.7			3.3		2.9
2230						3.9			2.5			3.1		
2400	4.0	4.0	4.0	3.9	3.9	4.0	3.9	3.9	2.5	2.8	3.4	3.0	3.2	2.9

LAKE MICHIGAN, STATION 20, 15 m continued.

DATE	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14
TIME														
0130	2.9													
0300														
0430	2.9													
0600														
0730	End of													
0900	record													
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400														

LAKE MICHIGAN - STATION 20. Depth 22 m.

Start 7 December 1963, 0930 CST; end 15 April 1964, 1830 CST.

Instrument serial no. 307, film record 20,115. Initial cal. 0.5°C; final cal. 0.8°C.

DATE	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20
TIME														
0130		8.0	8.0	7.9	7.9	8.1	8.2	8.0	7.0	7.1	6.6	6.3	5.9	5.8
0300				7.8				7.9		7.1		6.2		
0430						8.1	8.2	7.8		7.0	6.6	6.1		
0600						8.2	8.1	7.7			6.5	6.1		
0730						8.3		7.6				6.0		5.8
0900														5.7
1030	7.7													
1200	7.8													
1330								7.6		7.0			5.9	5.8
1500	7.8		8.0				8.1	7.5	7.0	6.9		6.0		
1630	7.9		7.9		7.9		8.0	7.4	7.1	6.9		5.9		
1800					8.0			7.3		6.8				
1930	7.9				8.1			7.3						
2100	8.0			7.8		8.3		7.2		6.8				
2230				7.9		8.2		7.2		6.7	6.5			
2400	8.0	8.0	7.9	7.9	8.1	8.2	8.0	7.1	7.1	6.6	6.4	5.9	5.8	5.7

LAKE MICHIGAN, STATION 20, 22 m continued.

DATE	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3
TIME														
0130	5.6	5.2	5.3	5.2	5.1	5.0	5.0	5.0	5.0	4.5	4.5	4.5	4.5	4.4
0300	5.5								4.9					
0430	5.4													
0600	5.4				5.1				4.9					4.4
0730	5.3				5.0				4.8	4.5				4.5
0900	5.2					5.0				4.4				
1030			5.3			5.1								
1200			5.2											
1330														
1500				5.2					4.8					
1630				5.1		5.1			4.7					
1800		5.2	5.2			5.0							4.5	
1930		5.3	5.3										4.4	
2100									4.7					
2230									4.6					
2400	5.2	5.3	5.3	5.1	5.0	5.0	5.0	5.0	4.5	4.4	4.5	4.5	4.4	4.5
DATE	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17
TIME														
0130	4.5	4.5	4.4	4.4	4.4	4.3	4.2	4.0	4.0	3.9	3.8	3.5	3.9	3.8
0300														
0430														
0600										3.9		3.5		
0730										3.8		3.6	3.9	
0900							4.2					3.7	3.8	
1030							4.1					3.8		
1200											3.8	3.8		
1330											3.7	3.9		
1500					4.4									
1630					4.3						3.7			
1800		4.5				4.3			4.0		3.6			3.8
1930		4.4				4.2			3.9					3.7
2100														
2230							4.1				3.6			
2400	4.5	4.4	4.4	4.4	4.3	4.2	4.0	4.0	3.9	3.8	3.5	3.9	3.8	3.7
DATE	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31
TIME														
0130	3.7	3.7	3.6	3.6	3.5	3.4	3.3	3.4	3.3	2.1	2.4	2.6	2.9	2.9
0300									3.2			2.7		
0430									3.1	2.1		2.8		
0600									3.0	2.3		2.9		2.9
0730									2.9	2.4				2.8
0900									2.7	2.6				
1030				3.6					2.6	2.7				
1200				3.5				3.4	2.6	2.6	2.4			
1330								3.3	2.7	2.6	2.5			
1500									2.8	2.4				2.8
1630					3.5				2.7					2.9
1800					3.4				2.6					
1930		3.7				3.4			2.4		2.5			
2100		3.6				3.3			2.1		2.6			
2230														
2400	3.7	3.6	3.6	3.5	3.4	3.3	3.3	3.3	2.1	2.4	2.6	2.9	2.9	2.9

LAKE MICHIGAN, STATION 20, 22 m continued.

DATE	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14
TIME														
0130	2.9	2.5	2.2	2.1	2.7	2.7	2.8	2.9	2.8	2.8	2.8	2.9	2.9	2.9
0300														
0430	2.9													
0600	2.8	2.5												
0730	2.7	2.4												
0900	2.6													2.9
1030	2.5													2.8
1200				2.1										
1330				2.2										
1500				2.3										
1630		2.4	2.2	2.4				2.9						
1800		2.3	2.1	2.4		2.7		2.8						
1930				2.5		2.8	2.8				2.8			
2100	2.5			2.6			2.9				2.9			
2230	2.6	2.3		2.7										
2400	2.5	2.2	2.1	2.7	2.7	2.8	2.9	2.8	2.8	2.8	2.9	2.9	2.9	2.8
DATE	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28
TIME														
0130	2.8	2.8	2.7	2.6	2.5	2.4	2.4	2.3	2.3	2.4	2.5	2.5	2.5	2.4
0300														
0430														
0600		2.8											2.5	
0730		2.7											2.4	
0900				2.6			2.		2.3					
1030				2.5			2.3		2.4					
1200														
1330			2.7		2.5									
1500			2.6		2.4					2.4				
1630										2.5				
1800														2.4
1930														2.3
2100														
2230														
2400	2.8	2.7	2.6	2.5	2.4	2.4	2.3	2.3	2.4	2.5	2.5	2.5	2.4	2.3
DATE	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	3-12	3-13
TIME														
0130	2.3	2.3	2.3	2.3	2.3	2.3	2.1	2.1	2.1	2.2	2.1	2.2	2.1	2.1
0300														
0430														
0600							2.1					2.2		
0730							2.0					2.1		
0900														
1030										2.1				
1200							2.0			2.2				
1330							2.1							
1500						2.3				2.2				
1630						2.2				2.1				
1800						2.1								
1930												2.1		
2100												2.2		
2230														
2400	2.3	2.3	2.3	2.3	2.3	2.1	2.1	2.1	2.2	2.1	2.2	2.1	2.1	2.1

LAKE MICHIGAN, STATION 20, 22 m continued.

DATE	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25	3-26	3-27
TIME														
0130	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.2	2.2
0300														
0430														
0600											2.1			
0730											2.2			
0900														
1030										2.0				
1200										2.1				
1330														
1500			2.1											
1630			2.0											
1800														
1930														
2100														2.2
2230														2.3
2400	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.2	2.2	2.3
DATE	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10
TIME														
0130	2.3	2.3	2.3	2.2	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.1
0300	2.3													
0430	2.2													
0600														
0730														
0900														
1030														
1200				2.2										
1330				2.1										
1500								2.1						
1630								2.2						
1800												2.2		
1930			2.3									2.1		
2100	2.2		2.2											
2230	2.3													
2400	2.3	2.3	2.2	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.1
DATE	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20	4-21	4-22	4-23	4-24
TIME														
0130	2.2	2.2	2.2	2.2	2.2									
0300			2.1											
0430														
0600														
0730				2.2										
0900				2.1										
1030														
1200														
1330														
1500			2.1	2.1										
1630			2.2	2.2										
1800					2.2									
1930														
2100					Record ends									
2230					1830 CST									
2400	2.2	2.2	2.2	2.2										

LAKE MICHIGAN - STATION 20. Depth 30 m.

Start 7 December 1963, 0930 CST; end 15 April 1964, 1830 CST.

Instrument serial no. 346, film record 20,116. Initial cal. 0°C; final cal. 0.3°C.

DATE	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20
TIME														
0130		7.7	8.0	7.5	7.5	8.0	7.9	7.6	6.7	6.9	6.4	6.2	5.8	5.6
0300			7.9	7.5				7.5	6.7		6.3	6.1		
0430			7.8	7.4	7.5			7.4	6.8			6.1		
0600		7.7			7.4	8.0		7.3				6.0	5.8	
0730		7.8				8.1		7.2					5.7	
0900	7.5	7.9	7.8		7.4		7.9					6.0		
1030	7.5	8.0	7.9	7.4	7.3		7.8			6.9		5.9		
1200	7.6			7.5						6.8	6.3	5.9	5.7	
1330			7.9				7.8			6.8	6.4	5.8	5.6	5.6
1500			7.8				7.7			6.7		5.8		5.5
1630	7.6		7.7		7.3				6.8	6.7		5.7		
1800	7.7		7.7		7.4				7.0	6.6				
1930	7.6		7.6		7.7				7.1	6.5				
2100	7.8		7.6		7.9	8.1	7.7	7.2	7.1	6.5				
2230	7.8		7.5		8.0	7.9	7.6	7.1	7.0	6.4	6.4			
2400	7.6	8.0	7.5	7.5	8.0	7.9	7.6	7.0	6.9	6.4	6.3	5.7	5.6	5.5

DATE	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3
TIME														
0130	5.5	5.3	5.2	5.0	5.0	4.9	5.0	5.0	4.7	4.4	4.3	4.3	4.3	4.3
0300	5.5				4.9				4.7	4.4				
0430	5.4								4.6	4.3				
0600	5.4	5.3			4.9				4.6			4.3		
0730	5.3	5.2			4.8				4.5			4.4		
0900	5.3	5.2												
1030	5.2	5.1	5.2											
1200			5.1										4.4	
1330													4.3	
1500								5.0						
1630								4.9						
1800					4.8			4.8						
1930	5.2	5.1												
2100	5.3	5.0	5.1		4.9	4.9								
2230		5.1	5.0			5.0		4.8	4.5					
2400	5.3	5.2	5.0	5.0	4.9	5.0	5.0	4.7	4.4	4.3	4.3	4.3	4.3	4.3

DATE	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17
TIME														
0130	4.3	4.2	4.2	4.2	4.1	4.1	4.0	4.0	3.9	3.7	3.5	3.1	3.5	3.3
0300										3.7	3.6			
0430				4.2						3.6	3.7			
0600				4.1						3.5				
0730										3.4				
0900										3.5		3.1		3.3
1030						4.1						3.2		3.4
1200						4.0					3.7	3.3		
1330											3.4	3.4		
1500											3.3	3.5	3.5	
1630							4.0				3.2	3.5	3.4	
1800							3.9				3.1	3.6		
1930								4.0	3.8					
2100	4.3							3.9	3.6					
2230	4.2								3.7			3.6		
2400	4.2	4.2	4.2	4.1	4.1	4.0	3.9	3.9	3.7	3.5	3.1	3.5	3.4	3.4

LAKE MICHIGAN, STATION 20, 30 m continued.

DATE TIME	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31
0130	3.2	3.1	3.0	3.0	3.0	3.0	2.9	3.0	2.9	1.9	2.0	2.5	2.7	2.7
0300									2.9			2.5		
0430									2.8	1.9		2.6		
0600					3.0				2.8	2.0		2.6		
0730					2.9				2.6	2.2	2.0	2.7	2.7	
0900		3.1					2.9		2.3	2.3	2.1		2.8	2.7
1030		3.0					3.0	3.0	2.2	2.4	2.1			2.6
1200	3.2					3.0		2.9	2.3	2.3	2.2		2.8	
1330	3.1					2.9			2.3	2.2			2.7	
1500									2.4	2.1	2.2			2.6
1630									2.4		2.3			2.7
1800					2.9				2.2					
1930					3.0				2.0					
2100									1.9		2.3			
2230											2.4			
2400	3.1	3.0	3.0	3.0	3.0	2.9	3.0	2.9	1.9	2.1	2.4	2.7	2.7	2.7
DATE TIME	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14
0130	2.7	2.1	2.0	1.9	2.4	2.4	2.4	2.4	2.3	2.3	2.4	2.5	2.5	2.5
0300	2.7	2.0		2.0										
0430	2.6		2.0											
0600	2.6	2.0	1.9											
0730	2.5	2.2		2.0										
0900	2.4	2.1		2.1										
1030	2.2	2.1												
1200	2.1	2.2												
1330		2.1	1.9							2.3				
1500			2.0	2.1						2.4				
1630		2.1	2.0	2.2				2.4			2.4			
1800		2.3	1.9					2.3			2.5			
1930	2.1			2.2										2.5
2100	2.2	2.3		2.3										2.4
2230	2.3	2.1		2.4										
2400	2.2	2.0	1.9	2.4	2.4	2.4	2.4	2.3	2.3	2.4	2.5	2.5	2.5	2.4
DATE TIME	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28
0130	2.4	2.4	2.4	2.3	2.3	2.3	2.2	2.1	2.2	2.2	2.2	2.1	2.2	2.1
0300														
0430														
0600							2.2					2.1		
0730							2.1					2.2		
0900			2.3											
1030														
1200														2.1
1330														2.0
1500														
1630													2.2	
1800									2.1				2.1	
1930						2.3		2.2						
2100						2.2					2.2			
2230											2.1			
2400	2.4	2.4	2.3	2.3	2.3	2.2	2.1	2.2	2.2	2.2	2.1	2.2	2.1	2.0

LAKE MICHIGAN, STATION 20, 30 m continued.

DATE	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	3-12	3-13
TIME														
0130	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
0300														
0430														
0600											1.8			
0730											1.7			
0900														
1030			1.9									1.8		
1200			2.0									1.7		
1330			1.8											
1500											1.7	1.7		
1630												1.8		
1800														
1930							1.8							
2100							1.7							
2230														
2400	1.9	1.9	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8
DATE	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25	3-26	3-27
TIME														
0130	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.6	1.6	1.7	1.7	1.7	1.7
0300									1.5					
0430														
0600														
0730					1.8					1.6				
0900					1.7					1.7				
1030							1.8							
1200					1.7		1.7							
1330					1.8		1.7	1.7						
1500							1.8	1.6						
1630									1.5					1.7
1800									1.6					1.8
1930														
2100														
2230														
2400	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.6	1.6	1.7	1.7	1.7	1.7	1.8
DATE	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10
TIME														
0130	1.8	2.0	2.0	2.0	2.0	2.0	1.9	1.8	1.7	1.8	1.7	1.7	1.7	1.7
0300														
0430														
0600										1.8				
0730								1.8		1.7				
0900								1.7						
1030							1.9							
1200	1.8						1.8							
1330	1.9													
1500														
1630						2.0								
1800						1.9				1.7				
1930	1.9								1.8					1.7
2100	2.0													1.8
2230														
2400	2.0	2.0	2.0	2.0	2.0	1.9	1.8	1.7	1.8	1.7	1.7	1.7	1.7	1.8

LAKE MICHIGAN, STATION 20, 30 m continued.

DATE TIME	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20	4-21	4-22	4-23	4-24
0130	1.8	1.9	1.9	1.9	1.9									
0300				1.8										
0430														
0600					1.9									
0730					1.8									
0900		1.9												
1030		1.8												
1200														
1330				1.8										
1500				1.9										
1630	1.8	1.8												
1800	1.9	1.9			1.8									
1930														
2100					End of record									
2230														
2400	1.9	1.9	1.9	1.9										

LAKE MICHIGAN - STATION 20. Depth 90 m.

Start 7 December 1963, 0930 CST; end 15 April 1964, 1830 CST.

Instrument serial no. 271, film record 20,117. Initial cal. 0.5°C; final cal. 0.7°C.

DATE TIME	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20
0130		4.0	4.0	3.6	3.6	3.5	3.7	4.1	3.7	3.8	3.5	3.5	3.5	3.5
0300						3.6	3.9	4.0	3.7	3.9				
0430						3.7	4.5		3.8					
0600		4.0			3.6	3.8	6.5		3.8	3.9				
0730		3.9			3.5	3.7	7.0		3.9	3.8				
0900		3.9					7.2	4.0	3.9	3.7				3.5
1030	4.1	4.0						3.9	3.8	3.6				3.7
1200	4.1						7.2	3.8	3.7					
1330	4.0						6.8	3.7	3.6	3.6				
1500		4.0	4.0				5.7			3.5				3.7
1630		3.9	3.9			3.7	4.8							3.8
1800						3.9	4.8							
1930			3.9				4.5							3.8
2100			3.7			3.9	4.2		3.6					3.9
2230			3.6			3.8	4.1		3.7					4.0
2400	4.0	3.9	3.6	3.6	3.5	3.7	4.1	3.7	3.8	3.5	3.5	3.5	3.5	4.1

LAKE MICHIGAN, STATION 20, 90 m continued.

DATE	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3
TIME														
0130	3.9	4.7	4.6	4.5	4.4	4.3	4.5	4.4	4.1	4.0	3.9	4.0	3.9	3.9
0300	3.8	4.7			4.4			4.3						
0430	3.9	4.6			4.3					4.0				
0600	4.0								4.1	3.9				
0730	4.1	4.6							4.0					
0900	4.3	4.5	4.6									4.0		
1030	4.5		4.5									3.9		
1200								4.3						
1330								4.2	4.0					
1500						4.3			4.1					
1630						4.4								
1800	4.5													
1930	4.6													
2100	4.7					4.4			4.1		3.9			
2230		4.5				4.5			4.0		4.0			
2400	4.7	4.6	4.5	4.5	4.3	4.5	4.5	4.2	4.0	3.9	4.0	3.9	3.9	3.9
DATE	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17
TIME														
0130	3.9	3.8	3.9	3.9	3.8	3.8	3.7	3.6	3.6	3.4	3.3	3.0	3.1	3.0
0300									3.6					
0430									3.5					
0600										3.4				
0730										3.3				
0900												3.0		3.0
1030						3.8						3.1		3.1
1200						3.7					3.3	3.3		
1330							3.7				3.2			
1500							3.6				3.1		3.1	
1630				3.9							3.1		3.0	
1800				3.8					3.5		3.0	3.3		
1930	3.9								3.4			3.2		3.1
2100	3.8							3.6						3.0
2230								3.5				3.2		
2400	3.8	3.8	3.9	3.8	3.8	3.7	3.6	3.5	3.4	3.8	3.8	3.1	3.0	3.0
DATE	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31
TIME														
0130	2.9	2.9	2.8	2.8	2.8	2.7	2.7	2.7	2.5	1.8	1.8	2.3	2.3	2.3
0300									2.5	1.9	1.9			
0430									2.4	2.0	2.0	2.3		
0600									2.4		2.1	2.2		
0730									2.3		2.2	2.3		
0900									2.1		2.3			
1030									2.0					
1200									2.0	2.0				
1330									2.1	1.9				
1500									2.2	1.8				
1630		2.9							2.1					
1800		2.8							2.0					
1930					2.8				1.7					2.3
2100					2.7				1.5					2.2
2230								2.7	1.6					2.3
2400	2.9	2.8	2.8	2.8	2.7	2.7	2.7	2.8	1.8	1.8	2.3	2.3	2.3	2.3

LAKE MICHIGAN, STATION 20, 90 m continued.

DATE	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14
TIME														
0130	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.1	2.1	2.0	1.9	2.1	2.1	2.0
0300					2.2					1.9				
0430					2.1		2.2				1.9			
0600					2.2		2.1				2.0			
0730	2.3						2.2				2.1			
0900	2.2													
1030							2.2							
1200	2.2						2.1							
1330	2.3													
1500										1.9			2.1	
1630										2.0			2.0	
1800														
1930				2.3					2.1					
2100				2.2					2.0					
2230														
2400	2.3	2.3	2.3	2.2	2.2	2.2	2.1	2.1	2.0	2.0	2.1	2.1	2.0	2.0
DATE	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28
TIME														
0130	1.9	1.9	1.9	1.9	1.9	1.8	1.7	1.7	1.8	1.7	1.7	1.7	1.7	1.7
0300														
0430														
0600									1.8					
0730									1.7					
0900														
1030														
1200														
1330														
1500														
1630														
1800					1.9	1.8								
1930					1.8	1.7								
2100								1.7						
2230								1.8						
2400	1.9	1.9	1.9	1.9	1.8	1.7	1.7	1.8	1.7	1.7	1.7	1.7	1.7	1.7
DATE	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	3-12	3-13
TIME														
0130	1.6	1.6	1.6	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
0300							1.4							
0430							1.3							
0600														
0730		1.6												
0900		1.5												
1030														
1200								1.3						
1330								1.4						
1500														
1630				1.6			1.5							
1800		1.5	1.5				1.4							
1930		1.6												
2100														
2230														
2400	1.6	1.6	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4

LAKE MICHIGAN, STATION 20, 90 m continued.

DATE	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25	3-26	3-27
TIME														
0130	1.4	1.4	1.4	1.4	1.3	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4
0300														
0430														
0600					1.3									
0730					1.4									
0900														
1030														
1200														
1330										1.3				
1500								1.4		1.4				
1630								1.3						
1800														
1930				1.4										1.4
2100				1.3										1.5
2230														
2400	1.4	1.4	1.4	1.3	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.5
DATE	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10
TIME														
0130	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.5
0300	1.5													
0430	1.4													
0600				1.6			1.5							
0730				1.5			1.4							
0900														
1030														
1200														
1330														
1500	1.4													
1630	1.5													
1800														
1930			1.5										1.4	
2100			1.6										1.5	
2230														1.5
2400	1.5	1.5	1.6	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.6
DATE	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20	4-21	4-22	4-23	4-24
TIME														
0130	1.6													
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330	1.6													
1500	Data													
1630	ends													
1800														
1930														
2100														
2230														
2400														

LAKE MICHIGAN - STATION 27. Depth 15 m.

Start 4 December 1963, 0845 CST; end 23 April 1964, 1030 CST.

Instrument serial no. 310, film record 20,126. Initial cal. 0.5°C; final cal. 0.8°C.

DATE	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17
TIME														
0130		5.1	4.3	4.7	4.8	5.0	4.7	3.8	3.2	3.4	3.5	3.2	2.3	2.3
0300			4.3					3.5	3.1	3.4	3.4		2.4	2.3
0430			4.4					3.3	3.1	3.3				2.2
0600			4.5						3.2				2.4	2.2
0730		5.1	4.6		4.8		4.7		3.3	3.3			2.3	2.1
0900	5.0	5.0	4.7	4.7	4.7		4.6		3.4	3.4		3.2	2.2	2.1
1030		4.8	4.7	4.8	4.7		4.2		3.4	3.4		2.8	2.2	2.2
1200		4.5	4.8		4.8		3.3		3.5	3.5		2.3	2.1	
1330		4.3			4.8		3.3					2.2		
1500					4.9	5.0	3.4					2.1	2.1	
1630				4.8	4.9	4.9	3.6		3.5		3.4	1.9	2.2	
1800	5.0		4.8	4.7	5.0	4.8	3.7		3.4		3.2	1.8		
1930	5.1		4.7	4.6		4.7	3.8					1.9		
2100			4.7	4.7		4.6	4.0					1.9		2.2
2230			4.6			4.7	3.9	3.3				2.0		2.1
2400	5.1	4.3	4.6	4.7	5.0	4.7	3.9	3.2	3.4	3.5	3.2	2.2	2.2	2.0

DATE	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31
TIME														
0130	2.0	2.2	0.2	0.3	1.2	0.4	0.3	1.2	1.2	1.2	1.1	0.7	0.2	0.2
0300			0.2	0.3		0.4	0.3		1.1		1.0	0.5		
0430			0.3	0.4		0.3	0.5				0.9	0.5		0.2
0600			0.3	0.4			1.0				0.9	0.4		0.1
0730	2.0		0.4	0.5			1.1				1.0			
0900	1.9	2.2		0.5	1.2		1.2				1.1			
1030	1.9	2.0		0.6	1.1						1.1			
1200	2.0	1.6		0.8	0.9				1.1		1.2			
1330	2.0	1.4	0.4	0.9	0.7				1.2					
1500	2.1	1.3	0.3	1.0	0.5							0.4		
1630		1.2		1.1								0.3		
1800	2.1	1.0		1.2										
1930	2.2	0.8									1.2	0.3		
2100		0.6									1.1	0.2		
2230		0.3									1.1			0.1
2400	2.2	0.2	0.3	1.2	0.5	0.3	1.2	1.2	1.2	1.2	1.0	0.2	0.2	0.2

DATE	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14
TIME														
0130	0.2	1.0	1.4	1.8	1.7	1.7	1.7	1.6	1.5	1.7	1.4	1.2	1.2	1.2
0300		1.0	1.5				1.7			1.7		1.3		1.1
0430		1.1	1.5				1.6			1.5				
0600		1.2	1.7							1.4		1.3		
0730		1.4	1.8						1.5	1.2	1.4	1.2		
0900		1.5	1.9	1.8					1.6		1.3			1.1
1030	0.2			1.7										1.0
1200	0.3									1.2	1.3			
1330	0.4		1.9						1.6	1.3	1.2			
1500		1.5	1.8						1.7	1.4	1.2			
1630		1.4							1.7		1.1			
1800									1.8		1.1			
1930	0.4										1.0			
2100	0.5							1.6			1.1			
2230	0.6							1.5			1.2			1.0
2400	0.9	1.4	1.8	1.7	1.7	1.7	1.6	1.5	1.8	1.4	1.2	1.2	1.2	0.9

LAKE MICHIGAN, STATION 27, 15 m continued.

DATE	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28
TIME														
0130	0.9	1.0	1.2	1.1	1.1	1.1	1.2	1.1	1.2	1.2	1.2	1.0	1.0	0.8
0300		1.1												0.8
0430													1.0	0.7
0600													0.9	0.6
0730			1.2					1.1					1.0	0.5
0900			1.1					1.2						0.3
1030					1.1									
1200					1.2									
1330									1.2		1.2			
1500		1.1							1.1		1.1			
1630		1.2												
1800			1.1											0.3
1930	0.9		1.0			1.1			1.1					0.4
2100	1.0		1.1		1.2	1.2			1.2				1.0	
2230					1.1		1.2				1.1		0.9	
2400	1.0	1.2	1.1	1.1	1.1	1.2	1.1	1.2	1.2	1.2	1.0	1.0	0.9	0.4
DATE	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
TIME														
0130	0.4	0.4	0.4	0.7	0.7	0.7	0.8	0.4	0.5	0.5	0.4	0.3	0.2	0.3
0300													0.2	
0430		0.4					0.8				0.4		0.3	
0600		0.5					0.5				0.3		0.3	
0730							0.6						0.2	
0900						0.7	0.6	0.4						
1030		0.5	0.4			0.8	0.5	0.5						
1200		0.4	0.5				0.4		0.5					
1330			0.6						0.6					
1500							0.4			0.5				
1630							0.5			0.4		0.3	0.2	
1800							0.4					0.2	0.3	
1930														
2100			0.6							0.4				
2230			0.7				0.4			0.5				
2400	0.4	0.4	0.7	0.7	0.7	0.8	0.5	0.5	0.6	0.4	0.3	0.2	0.3	0.3
DATE	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25
TIME														
0130	0.3	0.4	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.8	0.8	0.6	0.5
0300									0.4				0.6	
0430													0.5	
0600		0.4				0.4			0.4					
0730		0.3				0.5	0.4		0.5					
0900							0.5		0.6					
1030			0.3	0.4						0.6				
1200			0.4	0.5					0.6	0.7				
1330					0.4				0.7				0.5	
1500					0.3				0.6			0.8	0.6	
1630	0.3			0.5								0.7	0.5	
1800	0.4			0.4	0.3					0.8				
1930					0.4									
2100					0.5	0.5								
2230					0.4	0.4						0.7		
2400	0.4	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.8	0.8	0.6	0.5	0.5

LAKE MICHIGAN, STATION 27, 15 m continued.

DATE	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10
TIME														
0130	0.5	0.1	0.1	0.2	0.3	0.3	0.7	0.7	0.8	1.0	1.0	0.9	0.7	0.6
0300						0.4								
0430	0.5					0.4								
0600	0.4					0.5								
0730						0.5			0.8	1.0				0.6
0900						0.6			1.0	0.9		0.9	0.7	0.7
1030	0.4					0.5				1.0		0.8		
1200	0.3					0.6						0.8		
1330	0.2		0.1									0.7		
1500	0.2		0.2									0.6		0.7
1630	0.1													0.8
1800	0.0	0.1				0.6								0.9
1930	0.0	0.2				0.7						0.6		0.9
2100	0.1							0.7			1.0	0.7	0.7	1.0
2230		0.2						0.8			0.9		0.6	
2400	0.1	0.1	0.2	0.2	0.3	0.7	0.7	0.8	1.0	1.0	0.9	0.7	0.7	1.0

DATE	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24
TIME														
0130	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.9	0.8	0.8
0300							1.1							
0430				1.1			1.0							
0600				1.0										0.8
0730														0.9
0900									1.1					
1030									1.2		1.1			
1200		1.0							1.1		1.0			
1330		1.1												0.9
1500												0.9		1.0
1630												0.8		
1800									1.1					
1930				1.0			1.0	1.1	1.2					
2100				1.1			1.1	1.0	1.1					
2230								1.1						
2400	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	0.8	0.8	1.0

DATE	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7
TIME														
0130	1.0	1.0	1.1	1.0	1.0	1.0	0.9	0.8	0.8	0.7	0.8	0.8	0.8	0.9
0300						0.9						0.8		
0430												0.7		
0600												0.8		
0730									0.8				0.8	0.9
0900									0.7				0.9	1.0
1030														
1200														
1330														
1500														
1630							0.9							
1800				1.1			0.8				0.7			
1930		1.0	1.0								0.8			
2100		1.1												
2230														
2400	1.0	1.1	1.0	1.0	1.0	0.9	0.8	0.8	0.7	0.8	0.8	0.8	0.9	1.0

LAKE MICHIGAN, STATION 27, 15 m continued.

DATE	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20	4-21
TIME														
0130	1.0	1.0	1.0	1.0	0.9	0.9	1.2	1.2	1.2	1.4	1.7	1.8	2.0	2.1
0300								1.1		1.5				
0430										1.5		1.8		
0600										1.6		2.0		
0730				1.0	0.9	0.9								
0900				0.9	1.0	0.8			1.2					
1030								1.1	1.3				2.0	
1200						0.8		1.2		1.7			2.1	2.1
1330			1.0			1.0					1.7			2.0
1500			1.1		1.0				1.3		1.8			
1630					0.9				1.4					
1800						1.0								
1930			1.1			1.1								
2100			1.0			1.2								
2230														
2400	1.0	1.0	1.0	0.9	0.9	1.2	1.2	1.2	1.4	1.7	1.8	2.0	2.1	2.0
DATE	4-22	4-23	4-24	4-25	4-26	4-27	4-28	4-29	4-30	5-1	5-2	5-3	5-4	5-5
TIME														
0130	2.0	2.1												
0300														
0430														
0600														
0730														
0900														
1030		2.1												
1200														
1330		End of												
1500		record												
1630														
1800														
1930	2.0													
2100	2.1													
2230														
2400	2.1													

LAKE MICHIGAN - STATION 28. Depth 15 m.

Start 4 December 1963, 1144 CST; end 23 April 1964, 1430 CST.

Instrument serial no. 363, film record 20,131. Initial cal. 0°C; final cal. 0°C.

DATE	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17
TIME														
0130		5.7	5.7	5.7	5.7	5.6	5.6	5.3	5.1	5.1	5.1	5.0	4.9	4.8
0300														
0430											5.1			
0600		5.7									5.0			
0730		5.8			5.7	5.6								
0900					5.6	5.7	5.6					5.0		
1030							5.5					4.9		4.8
1200	5.7													4.7
1330						5.7		5.3						
1500						5.8		5.2						
1630		5.8				5.8	5.5							
1800		5.7				5.7	5.4						4.9	
1930													4.8	
2100								5.2						
2230							5.4	5.1						
2400	5.7	5.7	5.7	5.7	5.6	5.7	5.3	5.1	5.1	5.1	5.0	4.9	4.8	4.7
DATE	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31
TIME														
0130	4.7	4.1	4.1	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.8	3.8	3.4	3.3
0300	4.6											3.7		
0430	4.5													
0600	4.3											3.7		
0730	4.1		4.1									3.6		3.3
0900			4.0											3.2
1030														
1200									4.0					
1330									3.9			3.6		
1500												3.5	3.4	
1630		4.1											3.3	
1800		4.0								3.9				
1930										3.8				
2100														
2230												3.5		
2400	4.1	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.8	3.8	3.4	3.3	3.2
DATE	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14
TIME														
0130	3.2	3.1	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.1	3.0	3.0	3.0	2.9
0300														2.9
0430														2.8
0600		3.1												
0730		3.2												
0900							3.2							
1030							3.1			3.1				
1200										3.0				
1330														
1500														2.8
1630														2.9
1800														3.0
1930														3.0
2100													3.0	2.9
2230													2.9	2.9
2400	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.1	3.0	3.0	3.0	2.9	2.8

LAKE MICHIGAN, STATION 28, 15 m continued.

DATE	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28
TIME														
0130	2.8	2.5	2.4	2.8	2.8	2.9	2.9	2.9	2.9	2.9	2.7	2.8	2.7	2.7
0300	2.7													
0430														
0600		2.5									2.7			
0730		2.4									2.8			
0900														
1030	2.7		2.4											
1200	2.6		2.5											
1330	2.5		2.6											
1500			2.7		2.8								2.7	
1630			2.8		2.9									
1800														
1930														
2100										2.9				
2230										2.8				
2400	2.5	2.4	2.8	2.8	2.9	2.9	2.9	2.9	2.9	2.7	2.8	2.7	2.7	2.7
DATE	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
TIME														
0130	2.7	2.7	2.7	2.8	2.8	2.8	2.7	2.4	2.4	2.4	2.4	2.4		2.3
0300														
0430							2.7							
0600							2.6		2.4					
0730			2.7						2.3	2.4				
0900			2.8			2.8				2.3				
1030						2.7	2.6							
1200							2.5							
1330														
1500														
1630														
1800									2.3					
1930									2.4					2.3
2100							2.5							2.4
2230							2.4			2.3				
2400	2.7	2.7	2.8	2.8	2.8	2.7	2.4	2.4	2.4	2.4	2.4	2.4		2.4
														Data ends

Unreadable

LAKE MICHIGAN - STATION 28. Depth 22 m.

Start 4 December 1963, 1144 CST; end 23 April 1964, 1430 CST.

Instrument serial no. 107, film record 20,132. Initial cal. 0.5°C; final cal. 0.0°C.

DATE	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17
TIME														
0130		5.5	5.5	5.5	5.5	5.4	5.3	5.1	4.9	4.8	4.7	4.6	4.5	4.4
0300									4.9					
0430								5.1	4.8					
0600								5.0				4.6		
0730											4.7	4.5		
0900											4.6			
1030					5.5									
1200	5.5				5.4		5.3			4.8				
1330						5.4	5.2			4.7				
1500				5.5		5.5								
1630				5.4									4.5	
1800				5.5				5.0					4.4	
1930						5.5		4.9						
2100						5.4	5.2							
2230							5.1							
2400	5.5	5.5	5.5	5.5	5.4	5.4	5.1	4.9	4.8	4.7	4.6	4.5	4.4	4.4

DATE	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31
TIME														
0130	4.4	3.9	3.8	3.6	3.7	3.6	3.6	3.7	3.6	3.6	3.6	3.5	3.4	3.1
0300	4.3													
0430	4.2						3.6							
0600	4.1	3.9					3.5							
0730	3.9	3.8						3.7						
0900		3.7	3.8					3.6						
1030			3.7											
1200														
1330														
1500					3.7						3.6			
1630					3.6						3.5			
1800			3.7										3.4	
1930		3.7	3.6									3.5	3.3	
2100		3.8										3.4	3.2	
2230													3.2	
2400	3.9	3.8	3.6	3.6	3.6	3.6	3.5	3.6	3.6	3.6	3.5	3.4	3.1	3.1

DATE	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14
TIME														
0130	3.1	3.0	3.4	3.5	3.5	3.5	3.4	3.3	3.3	3.3	3.1	2.9	2.8	2.7
0300		3.0												2.6
0430		3.1											2.8	
0600	3.1										3.1		2.7	
0730	3.0		3.4								3.0	2.9	2.7	
0900			3.5									2.8		
1030										3.3				
1200		3.1								3.2				
1330		3.2												
1500		3.2					3.4				3.0			
1630		3.3					3.3				2.9			
1800		3.3				3.5								2.6
1930		3.4				3.4					3.2			2.7
2100										3.1				
2230														2.7
2400	3.0	3.4	3.5	3.5	3.5	3.4	3.3	3.3	3.3	3.1	2.9	2.8	2.7	2.6

LAKE MICHIGAN, STATION 28, 22 m continued.

DATE	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28
TIME														
0130	2.7	2.5	2.5	2.7	2.7	2.7	2.7	2.7	2.8	2.8	2.7	2.7	2.7	2.7
0300														
0430		2.5												
0600		2.6								2.8				
0730	2.7									2.7				
0900	2.6		2.5											
1030		2.6	2.6											
1200		2.5	2.6											
1330			2.7											
1500	2.6			2.7										
1630	2.5			2.6										
1800				2.6				2.7						
1930				2.7				2.8						
2100														
2230														
2400	2.5	2.5	2.7	2.7	2.7	2.7	2.7	2.8	2.8	2.7	2.7	2.7	2.7	2.7
DATE	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
TIME														
0130	2.7	2.7	2.7	2.7	2.7	2.7	2.6	2.4	2.5	2.5	2.5	2.4	2.4	2.4
0300														
0430							2.6							
0600							2.5							
0730														
0900						2.7								
1030						2.6								
1200														
1330														
1500														
1630											2.5			
1800											2.4			
1930														
2100														
2230							2.5							
2400	2.7	2.7	2.7	2.7	2.7	2.6	2.4	2.4	2.5	2.5	2.4	2.4	2.4	2.4
DATE	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25
TIME														
0130	2.5	2.6	2.5	2.4	2.5	2.5	2.6	2.5	2.5	2.4	2.2	2.1	2.1	2.1
0300														
0430											2.2			
0600											2.3		2.1	
0730	2.5				2.5		2.6			2.4			2.0	
0900	2.6				2.6		2.5			2.3				
1030					2.6									
1200					2.5									
1330														
1500													2.0	
1630											2.3		2.1	
1800											2.2			
1930			2.5	2.4					2.5	2.3				
2100		2.6	2.4	2.5					2.4	2.2				
2230		2.5												
2400	2.6	2.5	2.4	2.5	2.5	2.5	2.5	2.5	2.4	2.2	2.2	2.1	2.1	2.1

LAKE MICHIGAN, STATION 28, 22 m continued.

DATE	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10
TIME														
0130	2.2	2.2	2.2	2.2	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1
0300														
0430														
0600						2.1						2.1		
0730						2.0			2.0			2.0		
0900									2.1					
1030				2.2										
1200				2.3									2.0	
1330													2.1	
1500											2.0			
1630								2.0			2.1			
1800				2.3	2.2			2.1						
1930				2.2	2.1									
2100									2.1					
2230									2.0					
2400	2.2	2.2	2.2	2.2	2.1	2.0	2.0	2.1	2.0	2.0	2.1	2.0	2.1	2.1
DATE	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24
TIME														
0130	2.1	2.0	1.8	1.9	2.0	2.0	2.1	2.1	2.1	2.2	2.2	2.1	2.0	2.0
0300		2.0										2.1		
0430		1.9										2.0		
0600	2.1													
0730	2.0													
0900			1.8			2.0			2.1					
1030			1.9			2.1			2.2		2.2			
1200											2.1			
1330														
1500					2.0									
1630					2.1									
1800														2.0
1930				1.9										2.1
2100				2.0										
2230														
2400	2.0	1.9	1.9	2.0	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.0	2.0	2.1
DATE	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7
TIME														
0130	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.2	2.1	2.0
0300														
0430				2.1										
0600				2.0										
0730												2.2		
0900										2.1		2.1		
1030										2.2			2.1	
1200													2.0	
1330														
1500		2.0							2.0					
1630		2.1							2.1					
1800														
1930														
2100														
2230														
2400	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.2	2.1	2.0	2.0

LAKE MICHIGAN, STATION 28, 22 m continued.

DATE	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20	4-21
TIME														
0130	2.0	2.1	2.2	2.2	2.1									
0300		2.1												
0430		2.2												
0600	2.0													
0730	2.1				2.2									
0900					2.1									
1030														
1200														
1330														
1500														
1630						2.1								
1800														
1930					Data									
2100					ends									
2230														
2400	2.1	2.2	2.2	2.1										

LAKE MICHIGAN - STATION 28. Depth 30 m.

Start 4 December 1963, 1144 CST; end 23 April 1964, 1430 CST.

Instrument serial no. 124, film record 20,133. Initial cal. 0°C; final cal. 0°C.

DATE	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17
TIME														
0130		5.7	5.6	5.6	5.6	5.5	5.5	5.4	5.2	5.1	5.1	5.1	5.0	5.0
0300								5.4						
0430								5.3						
0600												5.1		
0730		5.7					5.5		5.2			5.0		
0900		5.6					5.4		5.1					
1030														
1200	5.6					5.5								
1330						5.6								
1500														
1630														
1800					5.6									
1930		5.6			5.5	5.6		5.3						
2100	5.7					5.5		5.2						
2230														
2400	5.7	5.6	5.6	5.6	5.5	5.5	5.4	5.2	5.1	5.1	5.1	5.0	5.0	5.0

LAKE MICHIGAN, STATION 28, 30 m continued.

DATE	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31
TIME														
0130	5.0	4.6	4.4	4.2	4.3	4.3	4.2	4.2	4.1	4.1	4.0	4.0	4.0	4.0
0300	5.0													
0430	4.9													
0600	4.8	4.6	4.4											
0730	4.7	4.5	4.3			4.3				4.1				
0900						4.2				4.0				
1030														
1200														
1330	4.7			4.2										
1500	4.6			4.3										
1630														4.0
1800								4.2						3.9
1930		4.5						4.1					4.0	
2100		4.4	4.3										3.9	
2230			4.2											
2400	4.6	4.4	4.2	4.3	4.3	4.2	4.2	4.1	4.1	4.0	4.0	4.0	3.9	3.9
DATE	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14
TIME														
0130	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.9	3.9	3.8	3.8	3.5	3.4
0300												3.7	3.3	3.3
0430												3.6	3.2	3.2
0600					4.0								3.5	3.1
0730					3.9								3.4	
0900										3.9				
1030										3.8				
1200												3.6		
1330												3.5		
1500														
1630	4.0													3.1
1800	3.9													3.2
1930														
2100				4.0										
2230				3.9										
2400	3.9	4.0	4.0	3.9	3.9	3.9	3.9	3.9	3.9	3.8	3.8	3.5	3.4	3.2
DATE	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28
TIME														
0130	3.1	3.0	3.0	3.1	3.0	3.1	3.0	3.0	3.0	3.0	3.0	3.1	3.1	3.0
0300														
0430														
0600				3.1		3.1						3.1		
0730				3.0		3.0						3.0	3.1	
0900	3.1												3.0	
1030	3.0													
1200														
1330														
1500														
1630					3.0									
1800			3.0		3.1									
1930			3.1											
2100											3.0			
2230											3.1			
2400	3.0	3.0	3.1	3.0	3.1	3.0	3.0	3.0	3.0	3.0	3.1	3.0	3.0	3.0

LAKE MICHIGAN, STATION 28, 30 m continued.

DATE	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
TIME														
0130	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0300														
0430														
0600														
0730														3.0
0900														2.9
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9
DATE	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25
TIME														
0130	2.9	2.9	2.8	2.8	2.8	2.8	2.8	2.9	2.9	2.9	2.9	2.8	2.7	2.7
0300														
0430														
0600												2.8		
0730		2.9										2.7		
0900		2.8												
1030														
1200														
1330														
1500														
1630							2.8							
1800							2.9							
1930														
2100											2.9			
2230											2.8			
2400	2.9	2.8	2.8	2.8	2.8	2.8	2.9	2.9	2.9	2.9	2.7	2.7	2.7	2.7
DATE	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10
TIME														
0130	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.5	2.4	2.4	2.4	2.4
0300												2.4		
0430												2.3		
0600									2.7	2.5				
0730									2.6	2.4				
0900														
1030													2.3	
1200												2.4		
1330														
1500														
1630														
1800														
1930														
2100									2.6					
2230									2.5					
2400	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.5	2.4	2.4	2.4	2.4	2.4

LAKE MICHIGAN, STATION 28, 30 m continued.

DATE	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24
TIME														
0130	2.4	2.4	2.3	2.2	2.2	2.3	2.2	2.3	2.3	2.3	2.3	2.3	2.2	2.2
0300			2.2										2.2	
0430													2.1	
0600						2.3								
0730						2.2						2.3		
0900							2.2					2.2		
1030							2.3							
1200													2.1	
1330													2.2	
1500														
1630					2.2									
1800					2.3									
1930														
2100														
2230		2.4												
2400	2.4	2.3	2.2	2.2	2.3	2.2	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2
DATE	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7
TIME														
0130	2.3	2.3	2.3	2.3	2.3	2.2	2.1	2.1	2.1	2.2	2.2			
0300														
0430					2.3							2.2		
0600					2.2									
0730														
0900									2.1					
1030									2.2					
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	2.3	2.3	2.3	2.3	2.2	2.2	2.1	2.1	2.2	2.2				

Data
ends

LAKE MICHIGAN - STATION 28. Depth 60 m.

Start 4 December 1963, 1144 CST; end 23 April 1964, 1430 CST.

Instrument serial no. 281, film record 20,134. Initial cal. 0°C; final cal. 0.3°C.

DATE	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17
TIME														
0130		6.1	5.9	5.9	5.9	6.0	5.4	5.9	5.7	5.7	5.6	5.5	5.4	5.2
0300		5.9			5.7	5.8	5.5							
0430				5.9		5.4	5.5						5.4	
0600				6.0	5.7	5.3	5.6					5.5	5.3	
0730			5.9		5.6	5.3	5.7					5.4		
0900		5.9	5.8		5.7	5.2	5.7							
1030		6.0	6.0		5.9	4.8	5.8							5.2
1200	5.7	6.0			6.0	5.0								5.1
1330	6.0	5.7		6.0	5.8	5.7								
1500	6.0	5.8	6.0	5.9	5.5	5.9	5.8	5.9			5.6			
1630	5.9	6.0	5.9	5.8	5.3	5.1	5.9	5.8			5.5			
1800	5.7	5.9	5.9	5.8	5.3	5.0								
1930	5.8	6.0	6.0	6.0	5.4	5.0								
2100	6.0	5.9			5.9	5.4				5.7			5.3	
2230	5.9	6.0	6.0	6.0		5.4		5.8		5.6			5.2	
2400	6.0	5.9	5.9	5.9	5.9	5.6	5.9	5.7	5.7	5.6	5.5	5.4	5.2	5.1

DATE	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31
TIME														
0130	5.1	5.0	5.0	4.9	4.9	4.9	4.8	4.8	4.8	4.7	4.3	4.3	4.2	4.1
0300										4.7				
0430			5.0							4.6				
0600	5.1		4.9										4.2	
0730	5.0			4.9					4.8				4.1	
0900				4.8		4.9			4.7	4.6		4.3		
1030						4.8				4.5				4.1
1200														4.0
1330														
1500				4.8							4.5			
1630				4.9							4.4			
1800														
1930														
2100														
2230										4.4				
2400	5.0	5.0	4.9	4.9	4.9	4.8	4.8	4.8	4.7	4.3	4.3	4.2	4.1	4.0

DATE	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14
TIME														
0130	4.0	4.0	4.0	4.1	4.1	4.1	4.1	3.9	3.9	3.9	3.9	3.9	3.8	3.7
0300														
0430			4.0											
0600			4.1										3.8	3.7
0730													3.7	3.5
0900														3.5
1030							4.1							3.4
1200							4.0							
1330														
1500														3.4
1630													3.9	3.5
1800												3.8		3.6
1930														3.8
2100														3.9
2230														
2400	4.0	4.0	4.1	4.1	4.1	4.1	4.0	3.9	3.9	3.9	3.9	3.8	3.7	3.9

LAKE MICHIGAN, STATION 28, 60 m continued.

DATE	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28
TIME														
0130	3.9	3.1	3.0	3.6	3.5	3.8	3.7	3.7	3.7	3.7	3.6	3.4	3.2	3.2
0300	3.9													
0430	3.8				3.5						3.6			
0600	3.7				3.6						3.5	3.4		
0730	3.5											3.3		
0900					3.6						3.5			
1030				3.6	3.7						3.4			
1200		3.1	3.0	3.5		3.8								
1330		3.0	3.1			3.7								
1500			3.3											
1630														
1800			3.3									3.3		
1930	3.5		3.4		3.7					3.7		3.2		
2100	3.3		3.5		3.8					3.6				
2230	3.2		3.6											
2400	3.2	3.0	3.6	3.5	3.8	3.7	3.7	3.7	3.7	3.6	3.4	3.2	3.2	3.2
DATE	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
TIME														
0130	3.2	3.2	3.2	3.2	3.3	3.3	3.2	3.0	2.9	2.9	2.9	2.9	2.9	2.9
0300								3.1						
0430							3.2							
0600							3.1	3.1						
0730								3.0		2.9	2.9			
0900				3.2						3.0	3.0			
1030				3.3						3.0	2.9			
1200										2.9				
1330														
1500														
1630								3.0						
1800						3.3		2.9		2.9				
1930						3.2				3.0				
2100							3.1			2.9				
2230							3.0							
2400	3.2	3.2	3.2	3.3	3.3	3.2	3.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9
DATE	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25
TIME														
0130	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.7	2.7
0300											2.7			
0430											2.8			
0600														
0730														
0900														
1030														
1200											2.8			
1330											2.7			
1500														
1630														
1800														
1930											2.8			
2100											2.7			
2230														
2400	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.7	2.7	2.7

LAKE MICHIGAN, STATION 28, 60 m continued.

DATE	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10
TIME														
0130	2.7	2.7	2.6	2.6	2.7	2.7	2.6	2.6	2.6	2.5	2.5	2.4	2.4	2.4
0300														
0430						2.7								
0600						2.6								
0730														
0900														
1030														
1200														
1330		2.7												
1500		2.6									2.5			
1630											2.4			
1800				2.6										
1930				2.7										
2100	2.7													
2230	2.6													
2400	2.6	2.6	2.6	2.7	2.7	2.6	2.6	2.6	2.6	2.5	2.4	2.4	2.4	2.4
DATE	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24
TIME														
0130	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.3	2.3	2.4	2.4	2.4	2.0	2.0
0300														
0430														
0600							2.5					2.4		
0730			2.4			2.4	2.4					2.3		
0900			2.3			2.5								
1030			2.2											2.0
1200														2.1
1330			2.2											
1500			2.3											
1630			2.4						2.3					
1800								2.4						
1930												2.3		
2100												2.2		
2230												2.1		
2400	2.4	2.4	2.4	2.4	2.4	2.5	2.4	2.3	2.4	2.4	2.4	2.1	2.0	2.1
DATE	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7
TIME														
0130	2.1	2.1	2.1	2.2	2.1	2.0	2.1	2.1	2.2	2.1	2.2	2.2	2.1	2.1
0300			2.1		2.1									
0430			2.2		2.0									
0600										2.1				2.1
0730						2.0				2.2				2.0
0900				2.2		2.1								
1030				2.1										
1200														
1330														
1500								2.1						2.0
1630								2.2						2.1
1800										2.2				
1930										2.1				
2100												2.2		
2230												2.1		
2400	2.1	2.1	2.2	2.1	2.0	2.1	2.1	2.2	2.1	2.2	2.2	2.1	2.1	2.1

LAKE MICHIGAN, STATION 28, 60 m continued.

DATE	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20	4-21
TIME														
0130	2.0	2.2	2.3	2.4	2.5	2.5	2.4	2.4	2.4	2.4	2.6	2.6	2.6	2.6
0300														
0430														2.6
0600														2.7
0730	2.0													
0900	2.1									2.4				
1030	2.1									2.5				
1200	2.2													
1330		2.2												
1500		2.3												
1630														
1800				2.4		2.5							2.6	
1930				2.5		2.4							2.7	
2100										2.5				
2230										2.6				
2400	2.2	2.3	2.3	2.5	2.5	2.4	2.4	2.4	2.4	2.6	2.6	2.6	2.7	2.7
DATE	4-22	4-23	4-24	4-25	4-26	4-27	4-28	4-29	4-30	5-1	5-2	5-3	5-4	5-5
TIME														
0130	2.7	2.7												
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500		2.7												
1630														
1800		End of												
1930		record												
2100														
2230														
2400	2.7													

LAKE MICHIGAN - STATION 28. Depth 120 m.

Start 4 December 1963, 1144 CST; end 23 April 1964, 1430 CST.

Instrument serial no. 246, film record 20,135. Initial cal. 0°C; final cal. -1.5°C.

DATE	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17
TIME														
0130		2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.7	3.0	3.1
0300														3.1
0430													3.0	3.0
0600													3.1	3.0
0730											2.6			2.9
0900											2.7			
1030														
1200	2.6												3.1	
1330													3.0	
1500														
1630														
1800														
1930														
2100												2.7		
2230												2.9		
2400	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.7	2.9	3.0	2.9
DATE	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31
TIME														
0130	2.9	2.9	2.8	2.7	2.7	2.7	2.7	2.7	2.8	2.8	2.8	2.8	2.9	2.9
0300									2.8					
0430									2.7					
0600												2.8		2.9
0730									2.8			2.9		2.8
0900		2.9	2.8											
1030		2.8	2.7											
1200														
1330														
1500														
1630														
1800														
1930														
2100									2.7					
2230									2.8					
2400	2.9	2.8	2.7	2.7	2.7	2.7	2.7	2.8	2.8	2.8	2.8	2.9	2.9	2.8
DATE	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14
TIME														
0130	2.8	2.8	2.9	2.9	2.9	2.9	3.0	3.1	3.1	3.1	3.1	3.1	3.1	3.0
0300														
0430														
0600														
0730														
0900														
1030														
1200		2.8												
1330		2.9												
1500														
1630														
1800														
1930													3.1	
2100													3.0	
2230														
2400	2.8	2.9	2.9	2.9	2.9	2.9	3.0	3.1	3.1	3.1	3.1	3.1	3.0	3.0

LAKE MICHIGAN, STATION 28, 120 m continued.

DATE	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28
TIME														
0130	3.0	2.9	2.9	2.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0300														
0430														
0600				2.9										
0730				3.0										
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930	3.0													
2100	2.9													
2230														
2400	2.9	2.9	2.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
DATE	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11
TIME														
0130	3.0	3.1	3.1	3.1	3.0	3.1	3.0	3.0	2.9	2.9	2.9	2.8	2.8	2.9
0300														
0430													2.8	
0600													2.9	
0730														
0900														
1030					3.0	3.1								
1200					3.1	3.0								
1330														
1500														
1630	3.0													
1800	3.1													
1930											2.9			
2100				3.1				3.0			2.8			2.9
2230				3.0				2.9						2.7
2400	3.1	3.1	3.1	3.0	3.1	3.0	3.0	2.9	2.9	2.9	2.8	2.8	2.9	2.7
DATE	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25
TIME														
0130	2.6	2.5	2.6	2.6	2.6	2.6	2.5	2.5	2.4	2.4	2.5	2.5	2.5	2.5
0300						2.5								
0430														
0600		2.5						2.5	2.4					
0730		2.6						2.4	2.3					
0900														
1030														
1200														
1330									2.3					
1500									2.4					
1630	2.6													
1800	2.5													
1930														
2100														
2230														
2400	2.5	2.6	2.6	2.6	2.6	2.5	2.5	2.4	2.4	2.4	2.5	2.5	2.5	2.5

LAKE MICHIGAN, STATION 28, 120 m continued.

DATE	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10
TIME														
0130	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.7	2.6	2.6	2.5	2.5	2.5	2.5
0300														
0430														
0600														
0730														
0900														
1030														
1200			2.5							2.6				
1330			2.6							2.5				
1500														
1630														
1800														
1930							2.6							
2100							2.7							2.5
2230														2.4
2400	2.5	2.5	2.6	2.6	2.6	2.6	2.7	2.7	2.6	2.5	2.5	2.5	2.5	2.4
DATE	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24
TIME														
0130	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.6
0300														
0430														
0600														
0730					2.4									
0900					2.5									
1030														
1200														
1330														
1500														
1630										2.5				
1800										2.6				
1930														
2100														
2230														
2400	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6
DATE	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7
TIME														
0130	2.6	2.7	2.8	2.8	2.7	2.6	2.5	2.4	2.4	2.5	2.6	2.4	2.4	2.5
0300														
0430					2.7									
0600					2.6									
0730											2.6			
0900	2.6			2.8							2.5			
1030	2.7			2.7										
1200														
1330		2.7				2.6				2.4				
1500		2.8				2.5				2.5				
1630														
1800											2.5			
1930											2.6			
2100												2.5		
2230												2.4		
2400	2.7	2.8	2.8	2.7	2.6	2.5	2.5	2.4	2.5	2.6	2.4	2.4	2.4	2.5

LAKE MICHIGAN, STATION 28, 120 m continued.

DATE	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20	4-21
TIME														
0130	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.5	2.6	2.7	2.6	2.5
0300														
0430														
0600												2.7		
0730								2.5			2.6	2.6		
0900								2.6			2.5			
1030											2.5			
1200											2.6		2.6	
1330													2.5	
1500										2.5	2.6			
1630									2.6	2.6	2.7			
1800									2.5					
1930														
2100														
2230														
2400	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.5	2.6	2.7	2.6	2.5	2.5
DATE	4-22	4-23	4-24	4-25	4-26	4-27	4-28	4-29	4-30	5-1	5-2	5-3	5-4	5-5
TIME														
0130	2.4	2.4												
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330		2.4												
1500														
1630		Data												
1800		ends												
1930														
2100														
2230														
2400	2.4													

LAKE MICHIGAN - STATION 30. Depth 10 m.

Start 5 December 1963, 0900 CST; end 19 April 1964, 0805 CST.

Instrument serial no. 237, film record 20,146. Initial cal. Indet.; final cal. -0.6°C .

DATE	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18
TIME														
0130		6.4	6.4	6.3	6.3	6.1	6.1	6.1	6.0	5.6	5.5	5.2	4.9	4.9
0300		6.4	6.4						5.9			5.1		4.8
0430		6.3	6.3						5.9					
0600									5.8	5.6	5.5			
0730									5.7	5.5	5.4	5.1		
0900	6.4								5.6			5.0		4.8
1030								6.1			5.4	4.9	4.9	4.9
1200								6.0		5.5	5.3		4.8	
1330					6.3					5.4			4.6	4.9
1500					6.2								4.7	5.0
1630					6.2			6.0					4.8	
1800		6.3			6.1			6.1	5.6	5.4	5.3		4.9	5.0
1930		6.4							5.7	5.5	5.2			5.1
2100									5.7					
2230								6.1	5.6					5.1
2400	6.4	6.4	6.3	6.3	6.1	6.1	6.1	6.0	5.6	5.5	5.2	4.9	4.9	5.0

DATE	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1
TIME														
0130	5.0	4.5	4.6	4.3	5.6	5.8	5.9	5.7	5.6	5.3	5.1	4.7	3.6	3.6
0300	4.9	4.5			5.6		5.9					4.7		
0430	4.7	4.4	4.6		5.5		5.8				5.1	4.6		
0600	4.6	4.3	4.5				5.7		5.6		5.0	4.4		
0730		3.9			5.5				5.5			3.9		
0900		3.9			5.6			5.7						
1030		4.1			5.6			5.6			5.0			
1200	4.6	4.2			5.7	5.9		5.0	5.5		4.9			
1330	4.7	4.1					5.7	4.9	5.4					
1500	4.8		4.5	4.3	5.7		5.6	5.3						
1630		4.1	4.4	4.5	5.8		5.3	5.5						
1800	4.8	4.4		4.5			4.9	5.6						
1930	4.7	4.6		4.7			4.8							
2100	4.6			5.3			5.2			5.3		3.9		
2230	4.6		4.4	5.5			5.7		5.4	5.2	4.9	3.8		
2400	4.5	4.6	4.3	5.6	5.8	5.9	5.7	5.6	5.3	5.1	4.8	3.7	3.6	3.6

DATE	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15
TIME														
0130	3.6	4.0	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.5	3.4	3.3	3.2	3.4
0300		4.0									3.4	3.3	3.2	
0430		3.7			3.6						3.3	3.4	3.3	
0600		3.6			3.5					3.5		3.5		
0730								3.6		3.4			3.3	
0900				3.6				3.5				3.5	3.4	
1030			3.9									3.6	3.3	
1200	3.6												3.3	
1330	3.8		3.9		3.5								3.4	
1500			4.0		3.6							3.6		
1630	3.8		4.1									3.5		
1800	3.6											3.5		
1930	3.8		4.1									3.4		
2100	4.0		4.0									3.3		3.4
2230			3.7									3.3		3.3
2400	4.0	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.5	3.4	3.3	3.2	3.4	3.3

LAKE MICHIGAN, STATION 30, 10 m continued.

DATE	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29
TIME														
0130	3.3	3.2	3.1	3.1	3.2	3.2	3.2	3.3	3.3	3.3	3.2	3.2	3.1	3.0
0300	3.3											3.2		
0430	3.2											3.1		
0600													3.1	
0730													3.0	
0900														
1030														
1200														
1330														
1500		3.2					3.2			3.3				
1630		3.1		3.1			3.3			3.2				
1800				3.2										
1930														
2100														
2230														
2400	3.2	3.1	3.1	3.2	3.2	3.2	3.3	3.3	3.3	3.2	3.2	3.1	3.0	3.0
DATE	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12
TIME														
0130	3.0	2.9	2.9	3.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.0	2.9	2.8
0300	3.0										3.1	2.9	2.9	
0430	2.9										3.0		2.8	
0600						3.1								
0730						3.2								
0900														
1030														
1200														2.8
1330														2.7
1500			2.9	3.0		3.2								
1630			3.0	3.1		3.1								
1800														
1930														
2100														
2230														
2400	2.9	2.9	3.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.0	2.9	2.8	2.7
DATE	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26
TIME														
0130	2.7	2.7	2.8	2.0	1.9	2.7	2.8	2.8	2.7	2.6	2.5	2.6	2.6	2.6
0300				1.9	1.8				2.7				2.6	2.6
0430				1.8					2.6				2.5	2.5
0600				1.7							2.5			
0730				1.6							2.6		2.5	
0900													2.6	
1030										2.6				
1200										2.5				
1330		2.7		1.6	1.8									
1500		2.8	2.8	1.7	1.9									
1630			2.7	1.7	2.1									
1800			2.5	1.8	2.4									
1930			2.4	1.8	2.5									
2100			2.3	1.9	2.6	2.7		2.8						
2230			2.2			2.8		2.7						
2400	2.7	2.8	2.1	1.9	2.6	2.8	2.8	2.7	2.6	2.5	2.6	2.6	2.6	2.5

LAKE MICHIGAN, STATION 30, 10 m continued.

DATE	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11
TIME														
0130	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.7	2.2	2.1	2.5	2.4	1.9	1.6
0300	2.4		2.4					2.7	2.2	2.1	2.4	2.3	1.9	
0430								2.5	2.1	2.2	2.3		1.8	
0600								2.3					1.7	
0730	2.4							2.2		2.2			1.6	
0900	2.3						2.6	2.2		2.3				
1030							2.7	2.1		2.4				
1200								2.1	2.1	2.4				
1330								2.2	2.2	2.5				
1500			2.4								2.3			
1630			2.5								2.4			
1800		2.5										2.3		
1930		2.6	2.5						2.2			2.2		1.6
2100	2.3		2.6						2.1			2.0		1.7
2230	2.4											2.0		
2400	2.4	2.6	2.6	2.6	2.6	2.6	2.7	2.2	2.1	2.5	2.4	1.9	1.6	1.7
DATE	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25
TIME														
0130	1.7	2.1	2.0	2.0	1.8	1.8	1.8	1.8	2.0	2.3	2.1	1.9	2.0	2.0
0300		2.1	1.9						2.0	2.3	2.0	1.8		2.0
0430		2.2		2.0					1.9	2.2	2.0			1.9
0600				1.9							1.9		2.0	
0730											1.8		1.9	
0900	1.7											1.8		
1030	1.8		1.9	1.9					1.9		1.8	1.9		
1200	1.8		2.0	2.0				1.8	2.0		1.9			1.9
1330	1.9		2.0	2.1				1.9	2.1		2.0			2.0
1500			2.1	2.2					2.2			1.9		
1630				2.3								2.0		
1800	1.9			2.0									1.9	2.0
1930	2.0			1.8						2.2	2.0		2.0	2.1
2100	2.1	2.2							2.2	2.1	1.9			
2230		2.1	2.1						2.3	2.1				
2400	2.1	2.0	2.0	1.8	1.8	1.8	1.8	1.9	2.3	2.0	1.9	2.0	2.0	2.1
DATE	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
TIME														
0130	2.1	1.9	2.0	2.0	1.9	1.8	1.8	1.9	1.8	1.7	1.7	1.9	1.9	1.9
0300	2.0													
0430	1.9													
0600				2.0				1.9			1.7			
0730				1.9				1.8	1.8		1.8			
0900		1.9			1.9				1.7					
1030		2.0			1.8									
1200		2.0										1.8		
1330		2.1										1.9		1.9
1500						1.8								2.0
1630						1.9								
1800		2.1												
1930		2.0												
2100														
2230														
2400	1.9	2.0	2.0	1.9	1.8	1.8	1.9	1.8	1.7	1.7	1.9	1.9	1.9	2.0

LAKE MICHIGAN, STATION 30, 10 m continued.

DATE	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20	4-21	4-22
TIME														
0130	2.0	2.1	2.2	2.1	2.1	2.0	2.2	2.3	2.4					
0300						2.1								
0430			2.2			2.1								
0600			2.1			2.0	2.2							
0730							2.1							
0900					2.1									
1030					2.2	2.0								
1200	2.0					1.9								
1330	2.1													
1500								2.3	2.4					
1630						1.9	2.1	2.4						
1800		2.1				2.0	2.2							
1930		2.2			2.2	2.1								
2100					2.0	2.2								
2230							2.2							
2400	2.1	2.2	2.1	2.1	2.0	2.2	2.3	2.4						

LAKE MICHIGAN - STATION 30. Depth 15 m.

Start 5 December 1963, 0900 CST; end 19 April 1964, 0805 CST.

Instrument serial no. 284, film record 20,147. Initial cal. 0°C; final cal. 0.2°C.

DATE	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18
TIME														
0130		6.6	6.5	6.5	6.6	6.4	6.1	6.1	6.3	6.1	5.8	5.6	5.5	5.5
0300														
0430			6.5								5.8			5.5
0600			6.6		6.6					6.1	5.7			5.4
0730		6.6			6.5					6.0				
0900	6.9	6.5			6.5				6.3					5.4
1030					6.4			6.1	6.2					5.3
1200			6.6					6.2				5.6		
1330			6.5					6.2				5.5		
1500	6.9					6.4		6.3						
1630	6.8				6.5	6.3								
1800				6.6		6.3								
1930	6.8					6.2								
2100	6.7					6.1				6.0	5.7			
2230	6.7									5.9	5.6			
2400	6.7	6.5	6.5	6.6	6.4	6.1	6.1	6.3	6.2	5.9	5.6	5.5	5.5	5.3

LAKE MICHIGAN, STATION 30, 15 m continued.

DATE	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1
TIME														
0130	5.3	5.2	5.2	5.3	5.1	4.6	4.7	4.5	5.6	5.9	6.0	5.7	5.8	5.7
0300			5.2		5.1	4.5	4.8						5.9	
0430			5.0	5.3	5.0	4.4	4.9							
0600	5.3			5.2	4.9	4.3		4.5	5.6			5.7		
0730	5.2			5.2	4.9	4.3	4.9	4.6	5.7			5.8		
0900		5.2		5.1	4.8	4.5	4.8							5.9
1030		5.0	5.0	4.9		4.6	4.7							5.8
1200			5.1	4.8	4.8	4.8					6.0	5.8	5.7	5.7
1330			5.1	4.8	4.7	4.9				5.9	5.9	5.6	5.6	5.6
1500		5.0	5.2	4.7		5.0	4.7		5.7	6.0		5.5	5.4	
1630		5.2	5.2	4.7			4.6		5.8			5.4	4.8	
1800			5.3	4.8	4.7	5.0	4.5	4.6				5.1	5.1	5.6
1930				4.9	4.5	4.9		4.7				4.9	5.4	5.5
2100				5.0	4.4	4.9		4.9	5.8		5.9	5.1	5.6	
2230					4.2	4.8		4.9	5.9			5.8	5.7	5.7
2400	5.2	5.2	5.3	5.0	4.3	4.7	4.5	5.3	5.9	6.0	5.7	5.8	5.7	5.5
DATE	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15
TIME														
0130	5.5	5.5	5.3	4.9	4.0	4.0	3.0	4.0	4.2	3.8	4.5	3.7	3.7	3.7
0300				4.8					4.1		4.4			3.7
0430				4.7					4.0		4.3		3.7	3.6
0600			5.3	4.3			3.9	4.0			4.1		3.6	
0730			5.2	4.2			4.0	4.1	4.0		4.0			
0900					4.0		3.9	4.2	4.1		4.0			
1030					4.1					3.8	3.9			
1200		5.5					3.9	4.2		3.9	3.9			
1330		5.4			4.1		3.8	4.0	4.1	4.1	3.8			
1500		5.4			4.0		3.7	3.9	4.0	4.2	3.8		3.6	
1630		5.3					3.7	4.3	4.0	4.3	3.7		3.7	
1800			5.2	4.2			3.8	4.4	4.1	4.3				
1930			5.1	4.1					4.1	4.4				
2100			5.0	4.0				4.4	4.0	4.4				
2230			5.0			4.0	3.8	4.5	3.9	4.5				
2400	5.5	5.3	4.9	4.0	4.0	3.9	3.9	4.4	3.9	4.5	3.7	3.7	3.7	3.6
DATE	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29
TIME														
0130	3.6	3.6	3.6	3.5	3.5	3.3	3.3	3.7	3.6	3.5	3.2	3.2	3.1	3.1
0300								3.6						
0430					3.5			3.5						
0600					3.4			3.4	3.6					
0730					3.4		3.3	3.3	3.5					3.1
0900					3.3		3.4	3.2	3.4					3.0
1030							3.5	3.2						
1200							3.7	3.1	3.4					
1330								3.2	3.5					
1500							3.7	3.2						
1630							3.8	3.3						
1800										3.5				
1930										3.4				
2100			3.6					3.3		3.4				
2230			3.5					3.5		3.3				
2400	3.6	3.6	3.5	3.5	3.3	3.3	3.8	3.5	3.5	3.2	3.2	3.2	3.1	3.0

LAKE MICHIGAN, STATION 30, 15 m continued.

DATE	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12
TIME														
0130	3.0	3.1	3.2	3.2	3.2	3.2	3.3	3.2	3.2	3.0	3.0	2.9	2.9	2.9
0300								3.2	3.2					
0430		3.1						3.3	3.1					
0600		3.2												
0730	3.0													
0900	3.1													
1030								3.3						
1200						3.2		3.2						
1330						3.3								
1500							3.3							
1630				3.2			3.2							
1800				3.1							3.0			
1930				3.1					3.1		2.9			
2100				3.2					3.0					
2230														
2400	3.1	3.2	3.2	3.2	3.2	3.3	3.2	3.2	3.0	3.0	2.9	2.9	2.9	2.9
DATE	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26
TIME														
0130	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.7
0300		2.9										2.9		
0430		2.8										2.8	2.9	
0600													2.8	
0730														2.7
0900														2.6
1030														
1200		2.8												
1330		2.9											2.8	
1500												2.8	2.7	
1630												2.9		
1800														
1930														
2100														
2230														
2400	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.7	2.6
DATE	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11
TIME														
0130	2.6	2.6	2.6	2.6	2.6	2.6	2.4	1.8	1.9	2.7	2.8	2.8	2.6	2.2
0300							2.3	1.8						
0430							2.2	1.9	1.9					2.2
0600							2.2		2.0				2.6	2.1
0730							2.1		2.1			2.8	2.5	
0900							2.0	1.9	2.2			2.7		2.1
1030							2.0	2.0	2.3					2.2
1200							1.9	2.1	2.4				2.5	
1330							1.8	2.1	2.5	2.7			2.4	
1500							1.8	2.0	2.6	2.8				
1630							1.7	2.0					2.4	
1800								1.9					2.3	
1930													2.2	2.2
2100						2.6			2.6					2.3
2230						2.5			2.7			2.7	2.6	
2400	2.6	2.6	2.6	2.6	2.6	2.5	1.7	1.9	2.7	2.8	2.8	2.6	2.2	2.3

LAKE MICHIGAN, STATION 30, 15 m continued.

DATE	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25
TIME														
0130	2.3	2.2	2.5	2.4	2.5	2.5	2.4	2.3	2.4	2.4	2.4	2.5	2.5	2.5
0300						2.4	2.3							
0430														
0600		2.2						2.3						
0730		2.3						2.4						
0900	2.3	2.4							2.4					2.5
1030	2.2						2.3		2.3					2.4
1200	2.2		2.5				2.2							
1330	2.1	2.4	2.4						2.3					
1500		2.5					2.2		2.4					
1630							2.3							
1800														
1930														
2100	2.1										2.4			
2230	2.2										2.5			
2400	2.2	2.5	2.4	2.4	2.5	2.4	2.3	2.4	2.4	2.4	2.5	2.5	2.5	2.4
DATE	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
TIME														
0130	2.5	2.1	2.1	2.0	2.3	2.2	2.3	1.7	1.6	1.7	1.9	2.3	2.1	1.9
0300		2.1						1.7			1.9			
0430		2.0						1.6			2.0		2.1	
0600										1.7			2.0	1.9
0730				2.0						1.6				1.8
0900		2.0		2.1										
1030		2.1		2.2										
1200						2.2	2.3				2.0	2.3	2.0	
1330						2.3	2.2				2.1	2.2	2.1	1.8
1500	2.5			2.2			2.1			1.6		2.1		1.9
1630	2.4			2.3			2.0			1.7	2.1			2.0
1800	2.4						1.9				2.2		2.1	2.0
1930	2.3									1.7	2.3		2.0	2.1
2100	2.2									1.8	2.3			2.1
2230							1.9			1.8			2.0	2.0
2400	2.2	2.1	2.1	2.3	2.3	2.3	1.8	1.6	1.6	1.9	2.3	2.1	1.9	1.8
DATE	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20	4-21	4-22
TIME														
0130	1.5	1.5	1.6	1.6	1.6	1.9	2.1	2.1	1.8	2.0	1.9			
0300						1.9								
0430						2.0								
0600									1.8					
0730							2.1		1.9		1.9			
0900					1.6		2.2		2.0					
1030					1.7		2.3		2.1	2.0	End of film			
1200		1.5					2.2			2.1				
1330		1.6				1.7								
1500						1.8								
1630							2.2	2.1						
1800							2.1	2.0						
1930						2.0			2.1	2.1				
2100					1.8	2.1		2.0	2.0	2.0				
2230					1.9			1.9						
2400	1.5	1.6	1.6	1.6	1.9	2.1	2.1	1.8	2.0	2.0				

LAKE MICHIGAN - STATION 30. Depth 22 m.

Start 5 December 1963, 0900 CST; end 19 April 1964, 0805 CST.

Instrument serial no. 312, film record 20,148. Initial cal. 0°C; final cal. -0.4°C.

DATE	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18
TIME														
0130		6.5	6.5	6.5	6.3	6.0	6.0	6.0	5.9	5.5	5.5	5.3	5.1	5.0
0300		6.4		6.4					5.8		5.5			
0430									5.8		5.4			
0600									5.7					
0730				6.4										
0900	6.7			6.5					5.7					5.0
1030									5.6			5.3	5.1	5.1
1200				6.5								5.2	5.0	
1330				6.4				6.0					4.9	5.1
1500				6.3	6.3			5.9						5.2
1630					6.2								4.9	5.3
1800				6.3	6.1						5.4	5.2	5.0	
1930	6.7	6.4		6.2	6.0						5.3	5.1	5.1	
2100	6.6	6.5							5.6					
2230	6.5	6.5							5.5				5.1	5.3
2400	6.5	6.4	6.5	6.2	6.0	6.0	6.0	5.9	5.5	5.5	5.3	5.1	5.0	5.2
DATE	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1
TIME														
0130	5.1	4.7	4.9	4.5	5.3	5.7	5.7	5.7	5.6	5.4	5.2	4.7	4.0	3.8
0300	5.0	4.6	4.8		5.5							4.6	3.9	
0430	4.9		4.8				5.7					4.3	3.8	
0600	4.7	4.6	4.7			5.7	5.6					4.3		
0730		4.3				5.8		5.6	5.6			4.2	3.8	
0900		4.2	4.7		5.5	5.8			5.5			4.1	4.0	
1030		4.4	4.8		5.6	5.9		5.6			5.2		4.0	3.8
1200	4.7	4.5	4.8	4.5	5.6		5.6	4.9			5.1		3.9	3.7
1330	4.8	4.4	4.7	4.6	5.7		5.4	4.5		5.4	5.0			3.7
1500	4.9			4.6		5.9	5.3	4.6		5.3			3.9	3.8
1630	5.0	4.4	4.7	4.7		5.8	5.2	4.8					3.8	3.8
1800	5.0	4.6	4.6				4.9	5.3	5.5					3.7
1930	4.9	4.8	4.6	4.7		5.8	4.8	5.6	5.4			4.1		
2100	4.8	5.0	4.5	4.9		5.7	4.8					4.0		
2230	4.7	5.0		5.2			5.5			5.3				3.7
2400	4.7	4.9	4.5	5.2	5.7	5.7	5.6	5.6	5.4	5.2	5.0	4.0	3.8	3.6
DATE	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15
TIME														
0130	3.7	4.4	3.8	4.1	3.6	3.6	3.6	3.6	3.6	3.4	3.4	3.3	3.3	3.6
0300		4.3		4.0								3.4	3.4	
0430		4.1		3.9					3.6			3.6		
0600	3.7	3.9		3.8					3.5					
0730	3.8	3.9	3.8				3.6					3.6	3.4	
0900	3.8	4.0	3.9				3.7					3.7	3.5	
1030	3.9		4.3									3.8		
1200	3.9		4.3	3.8									3.5	
1330	4.0		4.4	3.7									3.6	
1500	4.1		4.5							3.5		3.0	3.6	
1630	4.1	4.0							3.4			3.7	3.5	
1800	4.0	4.1	4.5				3.7					3.6		
1930	4.0	4.0	4.4				3.6					3.5		
2100	4.3		3.9	4.3	3.7						3.4	3.4	3.5	3.6
2230		3.8	4.1	3.6							3.3	3.3	3.6	3.5
2400	4.3	3.8	3.9	3.6	3.6	3.6	3.6	3.6	3.4	3.4	3.3	3.3	3.6	3.5

LAKE MICHIGAN, STATION 30, 22 m continued.

DATE	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29
TIME														
0130	3.5	3.5	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.0	3.0	3.0
0300		3.4												
0430														
0600	3.5													
0730	3.6													
0900														
1030														
1200	3.6						3.3							
1330	3.5						3.4							
1500										3.3	3.2			
1630										3.2	3.1			
1800														
1930														
2100		3.4												
2230		3.3												
2400	3.5	3.3	3.3	3.3	3.3	3.3	3.4	3.3	3.3	3.2	3.1	3.0	3.0	3.0
DATE	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12
TIME														
0130	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.2	3.2	3.1	3.1	3.0	2.9	2.9
0300														
0430														
0600							3.3							
0730			3.2				3.2							
0900			3.3				3.3							
1030									3.2					
1200									3.1					
1330											3.1			
1500											3.0			
1630							3.3							
1800							3.2							
1930														
2100														
2230												3.0		
2400	3.2	3.2	3.3	3.3	3.3	3.3	3.2	3.2	3.1	3.1	3.0	2.9	2.9	2.9
DATE	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26
TIME														
0130	2.9	2.9	3.0	2.4	2.3	2.9	3.0	3.0	2.8	2.6	2.5	2.7	2.7	2.7
0300				2.3	2.2	3.0			2.8					
0430				2.2					2.7		2.5			
0600									2.6		2.6			
0730									2.6					
0900					2.2				2.5		2.6			2.7
1030					2.3						2.7			2.6
1200										2.6				
1330					2.3					2.5				
1500					2.5									
1630			3.0		2.6			3.0						
1800			2.8	2.2	2.8			2.9	2.5					
1930		2.7	2.6	2.3	2.9				2.6					
2100		3.0	2.6											
2230			2.5					2.9						
2400	2.9	3.0	2.4	2.3	2.9	3.0	3.0	2.8	2.6	2.5	2.7	2.7	2.7	2.6

LAKE MICHIGAN, STATION 30, 22 m continued.

DATE	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11
TIME														
0130	2.7	2.8	2.8	2.9	3.0	3.0	3.0	3.0	2.5	2.5	2.8	2.7	2.5	2.2
0300			2.8					2.9		2.5			2.4	
0430			2.9					2.7		2.6			2.3	
0600								2.6					2.2	
0730								2.6		2.6				
0900				2.9				2.5		2.7				
1030				3.0						2.8				
1200												2.7		
1330												2.8		
1500														
1630														
1800											2.8	2.8		
1930											2.7	2.7		
2100	2.7											2.7		
2230	2.8											2.5		
2400	2.8	2.8	2.9	3.0	3.0	3.0	3.0	2.5	2.5	2.8	2.7	2.5	2.2	2.2
DATE	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25
TIME														
0130	2.2	2.7	2.6	2.4	2.2	2.2	2.2	2.2	2.3	2.5	2.3	2.3	2.5	2.6
0300			2.5	2.4							2.3			
0430				2.3	2.2						2.1			
0600					2.1									
0730		2.7		2.3								2.3		
0900	2.2	2.8		2.4	2.1	2.2			2.3		2.1	2.4		
1030	2.3			2.5	2.2	2.3			2.4		2.2	2.4		
1200	2.3			2.5							2.3	2.5		
1330	2.4		2.6											
1500	2.4		2.5	2.6										
1630	2.5		2.6	2.7					2.4					
1800	2.5	2.8	2.5	2.5				2.2	2.5					
1930	2.6	2.7		2.3		2.3		2.3						
2100	2.6	2.6		2.2		2.2				2.5	2.3			
2230	2.7		2.5							2.4	2.1			
2400	2.7	2.6	2.4	2.2	2.2	2.2	2.2	2.3	2.5	2.3	2.2	2.5	2.5	2.6
DATE	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
TIME														
0130	2.7	2.4	2.6	2.5	2.5	2.5	2.4	2.4	2.4	2.3	2.3	2.4	2.6	2.6
0300	2.7	2.5				2.5	2.4		2.4					
0430	2.6	2.6				2.4	2.3		2.3					
0600												2.4		
0730	2.6											2.5		
0900	2.5								2.3		2.3			
1030									2.4		2.4			
1200														
1330	2.5													
1500	2.4						2.3							
1630			2.6				2.4		2.4					
1800			2.5						2.3	2.3		2.5		
1930					2.5					2.2		2.6		
2100					2.4									
2230														
2400	2.4	2.6	2.5	2.5	2.4	2.4	2.4	2.4	2.3	2.2	2.4	2.6	2.6	2.6

LAKE MICHIGAN, STATION 30, 22 m continued.

DATE TIME	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20	4-21	4-22
0130	2.6	2.6	2.7	2.7	2.6	2.6	2.7	2.8	2.9	2.9	2.9			
0300				2.7			2.6							
0430				2.6										
0600					2.6									
0730					2.5						2.9			
0900						2.6								
1030						2.7								
1200		2.6				2.6	2.6	2.8			End of record			
1330		2.7					2.7	2.9						
1500						2.6	2.7							
1630						2.5	2.8							
1800														
1930						2.5								
2100						2.6								
2230					2.5	2.6								
2400	2.6	2.7	2.7	2.6	2.6	2.7	2.8	2.9	2.9	2.9				

LAKE MICHIGAN - STATION 30. Depth 60 m.

Start 5 December 1963, 0900 CST; end 19 April 1964, 0805 CST.

Instrument serial no. 134, film record 20,149. Initial cal. 0°C; final cal. -1.0°C.

DATE TIME	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18
0130		5.7	5.4	6.4	5.3	6.3	6.3	6.4	6.5	6.0	5.9	5.7	5.5	5.5
0300		5.3	5.8	6.6	4.8	6.5	6.5	6.2	6.4		5.9			5.4
0430		5.5	5.7	6.7	4.4	6.4	6.6	6.4	6.4		5.8	5.7		
0600		5.4	5.7	6.8	4.4	5.8			6.3			5.5		
0730		5.0	5.9	6.1	4.7	5.9	6.6		6.3	6.0		5.6		
0900	6.9	4.9	5.8	5.8	4.9	6.4	6.4		6.2	5.9			5.5	5.4
1030	6.8	4.6	6.0	5.8	5.2	6.4	5.9		6.1				5.4	5.5
1200	6.7	5.4	5.7	6.1	5.7	6.0	6.0					5.6	5.4	
1330	6.5	5.7	5.4	6.3	6.7	5.9	6.0					5.5	5.3	5.5
1500	6.1	5.4	5.8	6.2	6.7	6.3	6.3		6.1		5.8	5.5		5.6
1630	6.0	5.4	6.0	6.5	6.2	6.0	6.6		6.0		5.7	5.4	5.3	5.4
1800	5.9	6.3	5.7	6.9	5.8	6.0		6.4				5.3	5.4	
1930	5.7	6.1	5.6	6.3	6.3	6.2		6.5				5.1	5.5	5.4
2100	5.9	5.7	5.7	6.4	6.3	6.0						5.3	5.5	5.5
2230	6.5		6.1	5.6	4.9	6.1						5.5	5.4	
2400	6.3	5.7	6.3	5.3	4.8	6.0	6.6	6.5	6.0	5.9	5.7	5.5	5.4	5.5

LAKE MICHIGAN, STATION 30, 60 m continued.

DATE	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1
TIME														
0130	5.5	5.3	5.5	5.0	5.4	6.4	6.5	5.9	5.3	6.0	5.7	4.7	4.5	4.4
0300	5.5	5.1	5.5			6.4	6.4	6.1	5.4		5.7		4.5	4.4
0430	5.4	5.0	5.4			6.5	6.0	5.8	5.8		5.6		4.4	4.3
0600	5.4		5.3				5.8	5.8	6.0	6.0		4.7		
0730	5.3	5.0					5.6	5.6	6.1	5.9		4.8	4.4	
0900		4.9	5.3	5.0	5.4	6.5	5.5	4.9			5.6		4.5	4.3
1030		4.9	5.2	5.1	5.5	6.6	5.2	4.7	6.1		5.5		4.6	4.2
1200	5.3	5.0	5.1		5.6		5.1	4.6	6.0	5.9	5.4		4.5	
1330	5.4	5.1					5.1	4.5		5.8	5.4		4.5	4.2
1500		5.0	5.1			6.6	5.2				5.5	4.8	4.5	4.3
1630			5.2	5.1		6.5						4.7	4.4	4.4
1800		5.0	5.1	5.2	5.6	6.5	5.2	4.5						4.3
1930		5.1	5.0	5.3	5.7	6.4	5.1	4.7		5.8	5.5	4.7		4.2
2100	5.4	5.4		5.4	6.0		5.1	5.0		5.7	5.3	4.5		
2230	5.3	5.5			6.3		5.4	5.1		5.6	4.8	4.4		4.2
2400	5.3	5.5	5.0	5.4	6.3	6.4	5.8	5.2	6.0	5.6	4.7	4.4	4.4	4.1
DATE	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15
TIME														
0130	4.2	4.7	4.3	4.6	4.3	4.3	4.2	4.2	4.2	4.0	4.1	4.0	4.0	4.2
0300	4.3	4.6		4.5		4.3				4.0		4.1	4.0	
0430		4.5		4.4		4.2				4.1		4.2	4.2	
0600	4.3	4.4	4.3									4.3		
0730	4.4	4.4	4.2						4.2					
0900		4.5	4.3						4.1			4.3		
1030			4.4	4.4								4.4		
1200			4.9	4.3								4.5		
1330	4.4		4.9											
1500	4.7		5.0									4.5		4.2
1630	4.7		5.2						4.0		4.0	4.4		4.3
1800	4.5		5.2									4.4		
1930			5.1									4.3		
2100	4.5	4.5	4.9									4.2		
2230	4.7	4.4	4.7									4.1		
2400	4.7	4.3	4.6	4.3	4.3	4.2	4.2	4.2	4.0	4.1	4.0	4.0	4.2	4.3
DATE	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29
TIME														
0130	4.3	4.3	4.0	4.0	4.1	4.1	4.0	4.0	4.1	4.2	4.1	3.9	3.8	3.8
0300											4.1			
0430											4.0			
0600														
0730														
0900		4.3												
1030		4.2												
1200							4.0			4.2	4.0	3.8		
1330							4.1			4.1	3.9			
1500		4.2												
1630		4.1						4.0						
1800		4.1				4.1		4.1						
1930		4.0		4.0		4.0			4.1					
2100				4.1					4.2					
2230														
2400	4.3	4.0	4.0	4.1	4.1	4.0	4.1	4.1	4.2	4.1	3.9	3.8	3.8	3.8

LAKE MICHIGAN, STATION 30, 60 m continued.

DATE	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12
TIME														
0130	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.8	3.7	3.7	3.6	3.6	3.5
0300														
0430			3.9										3.6	
0600			3.8						3.8				3.5	
0730		3.9	3.8						3.7					
0900		3.8	3.9								3.7			
1030		3.8						3.9			3.6			
1200		3.7						3.8						
1330														
1500														3.5
1630														3.4
1800		3.7												
1930		3.8												
2100		3.9												
2230														
2400	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.8	3.7	3.7	3.6	3.6	3.5	3.4
DATE	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26
TIME														
0130	3.5	3.6	3.6	3.5	3.0	3.5	3.6	3.7	3.6	3.5	3.4	3.6	3.5	3.6
0300						3.5			3.6		3.4			
0430						3.6			3.6		3.5			
0600			3.6					3.7	3.5		3.6			
0730		3.6	3.5		3.0			3.8						
0900		3.5			3.1				3.5				3.5	
1030					3.2			3.8	3.4				3.6	3.6
1200					3.2			3.7		3.5				3.5
1330				3.5	3.1					3.4				
1500	3.5			3.3	3.2					3.5				
1630	3.6			3.2	3.3									
1800				3.0	3.4							3.6		
1930					3.5							3.5		
2100								3.7	3.4	3.5				
2230								3.6	3.5	3.4				
2400	3.6	3.5	3.5	3.0	3.5	3.6	3.6	3.6	3.5	3.4	3.6	3.5	3.6	3.5
DATE	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11
TIME														
0130	3.5	3.5	3.6	3.6	3.6	3.6	3.6	3.7	3.3	3.2	3.6	3.6	3.7	3.6
0300								3.7		3.2				
0430								3.6		3.3			3.7	
0600		3.5						3.4		3.4			3.6	3.6
0730		3.6						3.3		3.5				3.5
0900								3.2		3.5				
1030									3.3	3.6				3.5
1200									3.2					3.6
1330														
1500													3.6	3.6
1630													3.5	3.5
1800								3.2					3.5	
1930								3.3					3.6	
2100													3.4	3.5
2230												3.6	3.5	3.6
2400	3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.3	3.2	3.6	3.6	3.7	3.6	3.6

LAKE MICHIGAN, STATION 30, 60 m continued.

DATE	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25
TIME														
0130	3.6	3.6	3.4	3.2	2.9	3.0	3.0	3.1	3.4	3.5	3.3	3.1	3.4	3.4
0300					2.9				3.4					
0430					3.0				3.5		3.3			
0600											3.2			
0730				3.2							3.1	3.1		
0900				3.3							3.2	3.2		
1030								3.1					3.4	
1200				3.3				3.2					3.3	
1330			3.4	3.4				3.3						
1500			3.5	3.4				3.4		3.5			3.3	
1630	3.6		3.5	3.5						3.4		3.2	3.4	
1800	3.5		3.4	3.5						3.4		3.3		
1930		3.6	3.3	3.4						3.3				3.4
2100		3.5		3.1										3.3
2230	3.5			3.0										
2400	3.6	3.5	3.3	3.0	3.0	3.0	3.0	3.4	3.5	3.3	3.2	3.3	3.4	3.3
DATE	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
TIME														
0130	3.3	3.1	3.3	3.3	3.3	3.1	3.0	3.3	3.3	3.2	3.1	3.2	3.3	3.3
0300														
0430	3.3													
0600	3.2	3.1				3.1				3.2				
0730	3.1	3.2				3.0				3.1				
0900														
1030					3.3									
1200					3.2									
1330	3.1													
1500	3.0	3.2					3.0		3.3					
1630	3.1	3.3					3.1		3.2			3.2		
1800		3.2										3.3		
1930														
2100					3.2						3.1			
2230					3.1		3.1				3.2			
2400	3.1	3.2	3.3	3.3	3.1	3.0	3.2	3.3	3.2	3.1	3.2	3.3	3.3	3.3
DATE	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20	4-21	4-22
TIME														
0130	3.3	3.4	3.4	3.4	3.4	3.5	3.7	3.9	3.9	3.9	3.9			
0300														
0430						3.5	3.7							
0600						3.6	3.6							
0730											3.9			
0900														
1030	3.3										End of			
1200	3.4										record			
1330						3.4	3.7	3.6						
1500						3.5	3.7	3.7						
1630							3.6	3.7						
1800							3.6	3.8						
1930							3.5							
2100							3.6							
2230							3.6							
2400	3.4	3.4	3.4	3.4	3.5	3.7	3.8	3.9	3.9	3.9				

LAKE MICHIGAN - STATION 30. Depth 120 m.

Start 5 December 1963, 0900 CST; end 19 April 1964, 0805 CST.

Instrument serial no. 241, film record 20,150. Initial cal. 0°C; final cal. 0.5°C.

DATE	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18
TIME														
0130		3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.0	3.0	3.0	3.0	3.1
0300														
0430														
0600														
0730														
0900	3.0													
1030	3.0													
1200	3.1													
1330														
1500													3.0	
1630									3.1				3.1	
1800									3.0					
1930														
2100														
2230														
2400	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.0	3.0	3.0	3.0	3.1	3.1
DATE	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1
TIME														
0130	3.1	3.9	3.9	3.9	3.9	3.9	4.0	4.0	3.9	4.0	4.0	4.0	4.0	4.0
0300	4.0					3.9								
0430						4.0			3.9					
0600						4.2			4.0					
0730						4.5								
0900	4.0					4.7								
1030	3.9					4.8								
1200	4.0					4.9								
1330	3.9					5.0								
1500						4.1		4.0						
1630						4.0		3.9						
1800														
1930														4.0
2100													4.0	3.9
2230													3.9	
2400	3.9	3.9	3.9	3.9	3.9	4.0	4.0	3.9	4.0	4.0	4.0	4.0	3.9	3.9
DATE	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15
TIME														
0130	3.8	3.8	3.8	3.8	3.7	3.6	3.6	3.6	3.6	3.5	3.5	3.5	3.3	3.2
0300														
0430														
0600											3.5			
0730											3.6			
0900					3.7									
1030					3.6				3.6			3.5		
1200									3.5			3.3		
1330														
1500														
1630														
1800				3.8									3.3	
1930				3.7		3.6							3.2	
2100						3.5								
2230														
2400	3.8	3.8	3.8	3.7	3.6	3.5	3.6	3.6	3.5	3.5	3.6	3.3	3.2	3.2

LAKE MICHIGAN, STATION 30, 120 m continued.

DATE	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29
TIME														
0130	3.2	3.2	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500		3.2												
1630		3.1												
1800		3.0												
1930														
2100														
2230														
2400	3.2	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
DATE	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12
TIME														
0130	2.9	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
0300														
0430														
0600														
0730														
0900														
1030														
1200	2.9													
1330	2.8													
1500														
1630														
1800														
1930														
2100														
2230														
2400	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
DATE	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26
TIME														
0130	2.8	2.8	2.7	2.7	2.6	2.6	2.5	2.4	2.4	2.4	2.3	2.4	2.4	2.4
0300														
0430														
0600		2.8									2.3			
0730		2.7									2.4			
0900														
1030														
1200														
1330														
1500						2.6				2.4				
1630						2.5				2.3				
1800					2.7									
1930				2.6										
2100														
2230														
2400	2.8	2.7	2.7	2.6	2.6	2.5	2.5	2.4	2.4	2.3	2.4	2.4	2.4	2.4

LAKE MICHIGAN, STATION 30, 120 m continued.

DATE	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11
TIME														
0130	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	1.9	1.9	1.9	1.9	2.0	2.0
0300								2.3						
0430							2.4	2.1	1.9					
0600							2.3	2.0	1.8					
0730								2.0						
0900								1.9						
1030														
1200									1.8					
1330									1.9					
1500														
1630														
1800												1.9		
1930												2.0		
2100														
2230														
2400	2.4	2.4	2.4	2.4	2.4	2.4	2.3	1.9	1.9	1.9	1.9	2.0	2.0	2.0
DATE	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25
TIME														
0130	1.9	1.9	1.9	1.8	1.8	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.7
0300														
0430														
0600						1.7								1.7
0730						1.6								1.6
0900			1.9											
1030			1.8											
1200														
1330														
1500														
1630														
1800														
1930					1.8							1.6		
2100					1.7							1.7	1.6	
2230													1.7	
2400	1.9	1.9	1.8	1.8	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.6
DATE	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
TIME														
0130	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5

LAKE MICHIGAN, STATION 30, 120 m continued.

DATE	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20	4-21	4-22
TIME														
0130	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.6				
0300														
0430														
0600														
0730										1.6				
0900										End of				
1030										record				
1200														
1330														
1500							1.5							
1630							1.6							
1800														
1930														
2100														
2230														
2400	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.6					

LAKE MICHIGAN - STATION 30. Depth 150 m.

Start 5 December 1963, 0900 CST; end 19 April 1964, 0805 CST.

Instrument serial no. 293, film record 20,151. Initial cal. 0°C; final cal. 0°C.

DATE	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18
TIME														
0130		3.5	3.5	3.5	3.5	3.5	3.5	3.8	3.5	3.6	3.5	3.5	3.6	3.7
0300							3.6	3.7						
0430								3.6						
0600						3.5		3.6				3.5		
0730						3.6	3.6	3.5			3.5	3.6		
0900				3.5			3.7				3.6			
1030	3.6			3.6										
1200														
1330						3.6				3.6				
1500						3.5				3.5				
1630									3.5					
1800	3.6						3.7		3.6					
1930	3.5			3.6			3.8							
2100				3.5										
2230													3.6	
2400	3.5	3.5	3.5	3.5	3.5	3.5	3.8	3.5	3.6	3.5	3.5	3.6	3.7	3.7

LAKE MICHIGAN, STATION 30, 150 m continued.

DATE	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1
TIME														
0130	3.7	3.8	3.8	4.0	3.7	3.7	4.3	4.0	3.8	4.0	3.9	3.8	3.8	3.9
0300		4.0			3.7	3.7	4.3	4.0						
0430					3.7	3.6	4.3	3.9		4.0				
0600					3.6		4.2	4.0	3.8	3.9				3.9
0730		4.0					4.1	4.1	3.9			3.8		3.8
0900		4.1	3.8				4.0	4.1	3.9			3.9		3.8
1030			4.0			3.6		4.0	4.0			4.0	3.8	3.7
1200					3.6	3.7	4.0	4.0					3.9	
1330	3.7			4.0	3.7	3.8	3.9	3.9						
1500	3.8	4.1	4.0	3.9		3.9	3.8	3.9						
1630	3.8	3.9	3.9	3.8		4.0	3.8	3.8				4.0		3.7
1800	3.7	4.0	3.9			4.0	3.9				3.9	3.9		3.8
1930	3.9	4.2	4.0			4.2	4.0				3.8			3.9
2100	3.7	4.0				4.0								3.8
2230		3.8		3.8		3.8						3.9		3.7
2400	3.7	3.8	4.0	3.7	3.7	3.8	4.0	3.8	4.0	3.9	3.8	3.8	3.9	3.8
DATE	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15
TIME														
0130	3.8	3.7	3.7	3.8	3.4	3.4	3.5	3.5	3.5	3.4	3.3	3.3	3.4	3.4
0300	3.8		3.6	3.7					3.5				3.3	3.5
0430	3.7		3.5		3.4				3.6				3.2	3.6
0600				3.7	3.5									
0730				3.6		3.4						3.3	3.2	
0900	3.7					3.5						3.5	3.3	
1030	3.8	3.7							3.6			3.6	3.5	
1200		3.8	3.5	3.6					3.5				3.6	
1330		3.8	3.6	3.5					3.5			3.6		
1500		3.7	3.7						3.4			3.7	3.6	
1630		3.7											3.5	
1800		3.8		3.5						3.4		3.7		3.6
1930			3.7	3.4						3.3		3.6		3.5
2100			3.9		3.5							3.6	3.5	
2230	3.8		3.9		3.4							3.5	3.4	
2400	3.7	3.8	3.8	3.4	3.4	3.5	3.5	3.5	3.4	3.3	3.3	3.4	3.4	3.5
DATE	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29
TIME														
0130	3.5	3.4	3.1	3.1	3.2	3.1	3.2	3.3	3.3	3.2	3.1	3.0	3.0	3.0
0300	3.5	3.4				3.1								
0430	3.4	3.3				3.2								
0600		3.2									3.1			
0730			3.1								3.0			
0900			3.0				3.2							
1030							3.3							
1200														
1330														
1500									3.3					
1630		3.2	3.0		3.2				3.2					
1800		3.1	3.1		3.1					3.2				
1930										3.1				
2100														
2230														
2400	3.4	3.1	3.1	3.1	3.1	3.2	3.3	3.3	3.2	3.1	3.0	3.0	3.0	3.0

LAKE MICHIGAN, STATION 30, 150 m continued.

DATE	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12
TIME														
0130	3.0	3.0	3.0	3.1	3.1	3.1	3.0	3.0	3.0	2.9	2.9	2.9	2.9	3.0
0300									3.0					
0430									3.0					
0600									2.9					
0730														3.0
0900													2.9	2.9
1030													3.0	2.9
1200														3.0
1330		3.0			3.1	3.0								3.0
1500		2.9		3.1	3.0									2.9
1630				3.0										
1800				3.0										
1930		2.9	3.0	3.1										
2100		3.0	3.1											
2230														
2400	3.0	3.0	3.1	3.1	3.0	3.0	3.0	3.0	2.9	2.9	2.9	2.9	3.0	2.9
DATE	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26
TIME														
0130	2.9	2.9	2.9	2.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.6	2.6	2.6
0300		2.9			2.7									
0430		2.8			2.6									
0600														
0730			2.9											
0900			2.8											
1030														
1200				2.8						2.7				
1330				2.7						2.6				
1500					2.6				2.7					
1630					2.7				2.8					
1800										2.6	2.7			2.6
1930										2.7	2.6			2.5
2100									2.8					
2230									2.7					
2400	2.9	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.6	2.6	2.6	2.5
DATE	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11
TIME														
0130	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.3	2.3	2.5	2.5	2.6	2.6
0300														
0430														
0600												2.5		
0730								2.6				2.6		
0900								2.5						
1030								2.4		2.3				
1200								2.3		2.4				
1330			2.5							2.4				
1500			2.6							2.5				
1630								2.4						
1800								2.3						
1930														
2100								2.3						
2230								2.2						
2400	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.2	2.3	2.5	2.5	2.6	2.6	2.6

LAKE MICHIGAN, STATION 30, 150 m continued.

DATE	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25
TIME														
0130	2.6	2.7	2.7	2.6	2.6	2.4	2.1	2.2	2.4	2.3	2.3	2.2	2.2	2.3
0300					2.6									
0430					2.5			2.2						
0600	2.6				2.4			2.3	2.4					
0730	2.7							2.4	2.3					
0900														
1030														
1200											2.3			
1330						2.4					2.2			
1500						2.3								
1630						2.2								
1800						2.1							2.2	
1930							2.1						2.3	
2100							2.2							
2230														
2400	2.7	2.7	2.7	2.6	2.4	2.1	2.2	2.4	2.3	2.3	2.2	2.2	2.3	2.3
DATE	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8
TIME														
0130	2.3	2.2	2.2	2.2	2.3	2.2	2.0	2.1	2.3	2.2	2.2	2.2	2.1	2.2
0300					2.3						2.1			
0430					2.2									
0600														
0730														
0900						2.2							2.1	
1030						2.1							2.2	
1200							2.0				2.1			
1330							2.1				2.2			
1500														
1630	2.3													
1800	2.1			2.2				2.1				2.2		2.2
1930	2.0			2.3				2.2				2.1		2.1
2100								2.3	2.3				2.2	
2230						2.1			2.2				2.3	
2400	2.0	2.2	2.2	2.3	2.2	2.0	2.1	2.3	2.2	2.2	2.2	2.1	2.3	2.1
DATE	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20	4-21	4-22
TIME														
0130	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.3	2.5	2.5			
0300					2.1		2.1							
0430					2.0		2.2							
0600														
0730					2.0									
0900					2.1				2.3					
1030							2.2		2.4					
1200							2.1		2.5		2.5			
1330					2.1									
1500					2.0	2.1								
1630						2.2	2.1							
1800							2.1							
1930					2.0		2.2							
2100					2.1		2.3							
2230						2.2								
2400	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.3	2.5	2.5				

Removed from
water at 1200

LAKE MICHIGAN - STATION 37. Depth 10 m.

Start 2 December 1963, 0900 CST; end 20 April 1964, 1705 CST.

Instrument serial no. 358; film record 20,160. Initial cal. 0°C; final cal. 0.5°C.

DATE	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15
TIME														
0130		5.7	5.6	5.3	5.2	5.3	5.5	5.4	4.8	5.9	6.0	6.0	5.5	5.4
0300							5.4	5.3	4.9	6.0		6.0		
0430							5.4	5.2	5.0			5.9	5.5	
0600					5.2		5.3		5.1	6.0		5.8	5.4	
0730					5.1	5.3	5.4		5.3	5.9		5.7		5.4
0900	5.4					5.4	5.5	5.2	5.4	5.7				5.3
1030	5.5		5.6			5.5		5.1						
1200	5.6		5.5						5.4	5.7				
1330	5.6		5.4						5.5	5.9				
1500	5.5							5.1	5.5	6.0		5.7		
1630	5.4			5.3				5.0	5.7			5.6		
1800	5.4		5.4	5.2				4.8	5.7					5.3
1930	5.5		5.3											5.2
2100	5.6				5.1			4.8	5.7			5.6		
2230	5.7	5.7			5.2			4.9	5.8			5.5		
2400	5.7	5.6	5.3	5.2	5.3	5.5	5.5	4.8	5.9	6.0	6.0	5.5	5.4	5.2
DATE	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29
TIME														
0130	5.2	5.1	5.1	4.3	4.8	4.4	4.7	4.7	4.2	3.9	4.3	3.3	3.9	4.0
0300				4.4	4.7	4.6			4.3	4.2	4.3		3.9	
0430				4.7	4.6				3.9	4.1	4.2	3.3	3.7	
0600	5.2		5.1	4.8		4.6			3.8	4.0	4.1	3.5		
0730	5.1		5.0			4.5			3.9	4.1	3.8	3.6		
0900									4.0	4.2	3.6	3.7	3.7	
1030									4.3	4.3	3.3	3.8	3.8	
1200			5.0		4.6				4.2	4.5	3.2	4.0	3.9	
1330			4.9		4.4	4.5			4.0		3.1	3.9		
1500			4.8			4.6			3.9		3.1	3.8	3.9	
1630			4.3		4.4			4.7	3.8		3.2	3.7	4.0	
1800				4.3			4.7	4.6	3.7	4.5	3.3	3.7		4.0
1930		5.1		4.2		4.6	4.6	4.4	3.7	4.4		3.6	3.9	
2100		5.0		4.1		4.5	4.1	4.1				3.6	3.8	
2230				4.0		4.5	4.1	4.1	4.4			3.7	3.7	
2400	5.1	5.0	4.3	4.8	4.1	4.6	4.6	3.9	3.7	4.3	3.3	3.8	4.0	3.7
DATE	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12
TIME														
0130	3.7	2.8	2.9	2.6	2.4	2.8	2.9	2.9	2.2	2.9	2.9	2.8	2.7	2.6
0300				2.5										
0430		2.8		2.5					2.2					
0600		2.5	2.9	2.4		2.8			2.3		2.9			2.6
0730		2.1	3.0	2.3	2.4	2.9			2.7		2.8			2.5
0900	3.7		3.1		2.5				2.8					2.1
1030	3.6		3.1		2.6									1.9
1200	3.3		3.0											2.0
1330	3.2	2.1		2.3	2.6							2.8		2.2
1500	3.3	2.0		2.2	2.7							2.7		
1630	3.4		3.0		2.7				2.8		2.8		2.8	
1800	3.5		2.9		2.8				2.9		2.7			2.2
1930	3.6	2.0	2.8	2.2			2.9						2.8	2.3
2100	3.6	2.1	2.7	2.3			2.8						2.7	2.3
2230	3.4	2.6	2.6	2.3			2.4							2.4
2400	2.9	2.9	2.6	2.4	2.8	2.9	2.9	2.2	2.9	2.9	2.7	2.7	2.7	2.5

LAKE MICHIGAN, STATION 37, 10 m continued.

DATE	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26
TIME														
0130	2.5	2.3	2.5	2.4	2.2	2.3	2.1	2.0	2.2	2.3	2.0	2.3	2.3	2.3
0300		2.2	2.4		2.1	2.2		2.0						2.3
0430			2.4	2.4	2.0	2.0		2.1						2.2
0600			2.3	2.3							2.0			
0730			2.1								2.1	2.3		
0900		2.2	2.1					2.1		2.3		2.2		
1030		2.3	2.2		2.0			2.2		2.2			2.3	
1200			1.6	2.3	2.2			2.2					2.2	2.2
1330			1.8	2.4	2.3			2.3			2.1			2.1
1500		2.3	1.9	2.3							2.2			
1630		2.4	2.0							2.2		2.2		
1800		2.5	2.1							2.1	2.2	2.3	2.2	
1930			2.3			2.0				2.3	2.3		2.3	
2100	2.5									2.1				
2230	2.4		2.3							2.0				
2400	2.4	2.5	2.4	2.3	2.3	2.1	2.1	2.2	2.3	2.0	2.3	2.3	2.3	2.1
DATE	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
TIME														
0130	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.8	1.7	1.6	1.8	1.8	1.8	1.7
0300			1.9											
0430										1.6				
0600				2.0	2.0					1.7				
0730	2.1			1.9	1.9									
0900	2.0									1.7			1.8	
1030		2.1	1.9		1.9			1.7	1.8				1.7	1.7
1200		2.2	2.0		2.0		2.0	1.6						1.6
1330	2.0						1.9							
1500	2.1													1.6
1630		2.2												1.7
1800		2.1	2.0											
1930			1.9				1.9	1.8						
2100				1.9			1.8	1.7						
2230			1.9	2.0										
2400	2.1	2.1	2.0	2.0	2.0	2.0	1.8	1.7	1.6	1.8	1.8	1.8	1.7	1.7
DATE	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23
TIME														
0130	1.6	1.7	1.6	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.1
0300													1.5	1.2
0430					1.7								1.4	1.4
0600		1.7		1.7	1.6			1.6					1.6	1.4
0730		1.6		1.6				1.5						1.5
0900														1.4
1030			1.6					1.5					1.6	
1200			1.7					1.6			1.6		1.5	
1330											1.5		1.4	1.4
1500		1.6		1.6							1.6		1.3	1.5
1630		1.7		1.7									1.4	
1800	1.6												1.1	
1930	1.7												1.0	
2100												1.6		
2230												1.5		
2400	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.0	1.5

LAKE MICHIGAN, STATION 37, 10 m continued.

DATE	2-24	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
TIME														
0130	1.5	1.5	1.5	1.0	0.8	0.9	0.9	1.0	1.4	1.5	1.6	1.5	1.4	1.3
0300			1.5				0.9							
0430			1.4	1.0	0.8		1.0							
0600			1.3	1.1	0.9		1.1			1.5		1.5	1.4	
0730							1.3			1.6		1.4	1.3	
0900								1.0			1.6			1.3
1030								1.1	1.4		1.5		1.3	1.2
1200			1.3			0.9			1.5				1.2	
1330			1.2			0.8						1.4		
1500	1.5							1.1				1.5		1.2
1630	1.6			1.1			1.3	1.2					1.2	1.1
1800			1.2	1.0		0.8	1.2						1.3	1.2
1930	1.6		1.1	1.0		0.9	1.2	1.2				1.5		
2100	1.5		1.0	0.8			1.1	1.3				1.4		
2230							1.0							
2400	1.5	1.5	1.0	0.8	0.9	0.9	1.0	1.3	1.5	1.6	1.5	1.4	1.3	1.2
DATE	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22
TIME														
0130	1.2	1.2	1.2	1.1	1.1	1.2	1.2	1.5	1.4	1.2	1.0	1.0	0.8	1.0
0300				1.0			1.3							
0430				0.9					1.4					
0600				0.8	1.1				1.3	1.2				1.0
0730			1.2		1.2		1.3			1.1				1.1
0900	1.2		1.1	0.8			1.4						0.8	
1030	1.1			0.9								1.0	0.9	
1200												0.9		
1330														
1500	1.1							1.5					0.9	1.1
1630	1.2						1.4	1.4					1.0	1.2
1800				0.9			1.5							
1930				1.0					1.3			0.9		
2100									1.2			0.8		
2230				1.0						1.1				
2400	1.2	1.2	1.1	1.1	1.2	1.2	1.5	1.4	1.2	1.0	1.0	0.8	1.0	1.2
DATE	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5
TIME														
0130	1.1	1.1	1.0	0.8	0.5	0.6	0.5	0.6	0.5	0.5	0.5	0.6	0.6	0.7
0300						0.6								0.8
0430			1.0			0.5								
0600			0.9	0.8				0.6						
0730				0.7				0.5				0.6		0.8
0900				0.6								0.5		0.7
1030			0.9	0.7										
1200			0.8											
1330														
1500		1.1			0.5								0.6	
1630		1.0		0.7	0.6	0.5							0.7	
1800				0.6		0.6								
1930														0.7
2100						0.6	0.5							0.8
2230				0.6		0.5	0.6							1.1
2400	1.1	1.0	0.8	0.5	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.7	1.4

LAKE MICHIGAN, STATION 37, 10 m continued.

DATE	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19
TIME														
0130	1.4	0.8	0.7	0.6	0.6	0.7	0.8	0.8	1.5	1.5	1.5	1.5	1.5	
0300									1.5					
0430		0.8							1.4					
0600	1.4	0.9		0.6			0.8	0.8						
0730	1.3		0.7	0.5			0.7	0.9						
0900	1.2		0.6					1.0	1.4					
1030	1.1	0.9			0.6			1.0	1.5					
1200	1.0	1.0			0.7			1.1					1.5	
1330	0.9	1.1						1.3						
1500		1.3		0.5			0.7	1.4					End	
1630		1.4		0.6			0.8	1.5						
1800		1.2												
1930		0.9												
2100		0.8												
2230	0.9	0.7												
2400	0.8	0.7	0.6	0.6	0.7	0.7	0.8	1.5	1.5	1.5	1.5	1.5		

LAKE MICHIGAN - STATION 37. Depth 15 m.

Start 2 December 1963, 0900 CST; end 20 April 1964, 1705 CST.

Instrument serial no. 287, film record 20,161. Initial cal. 0°C; final cal. -0.6°C.

DATE	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15
TIME														
0130		5.5	5.4	5.1	5.0	5.0	5.1	5.0	4.5	5.8	5.9	5.9	5.4	5.3
0300									4.6			5.9		
0430									4.6			5.8		
0600				5.1		5.0			4.8	5.8			5.4	
0730				5.0		5.1		5.0	5.0	5.4			5.3	5.3
0900	5.2		5.4					4.9	5.0	5.5				5.2
1030			5.3						5.1	5.5				
1200		5.5	5.3							5.6		5.8		
1330		5.4	5.2						5.1	5.8		5.7		5.2
1500								4.9	5.3	5.9				5.1
1630								4.6	5.5			5.7		
1800	5.2		5.2					4.5				5.6		
1930	5.3		5.1						5.5					5.1
2100	5.4								5.6			5.6		5.0
2230	5.5								5.7			5.5		
2400	5.5	5.4	5.1	5.0	5.0	5.1	5.1	4.5	5.8	5.9	5.9	5.5	5.3	5.0

LAKE MICHIGAN, STATION 37, 15 m continued.

DATE	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29
TIME														
0130	5.0	5.0	4.9	4.2	4.4	4.2	4.2	4.3	3.9	3.8	4.0	3.1	3.3	3.4
0300				4.4					3.7	3.7	3.9		3.2	
0430									3.4	3.6	3.7			
0600									3.2	3.7	3.3	3.1		
0730					4.4	4.2			3.3	3.9	3.2	3.2		
0900					4.3	4.1			3.8	4.0	3.1	3.3		
1030			4.9						4.0	4.1	3.0	3.5	3.2	
1200			4.6		4.3				3.8			3.6	3.3	
1330			4.3		4.2			4.3	3.6			3.6		
1500			4.0		4.1			4.2	3.5			3.5		
1630						4.1		4.2	3.4			3.4		3.4
1800					4.1	4.2		4.1	3.2			3.3		3.3
1930					4.0			4.0	3.8					3.2
2100		5.0						3.7	4.0		3.0			
2230		4.9			4.0			3.6	3.5	4.1	3.1			
2400	5.0	4.9	4.0	4.4	4.1	4.2	4.2	3.9	3.7	4.0	3.1	3.3	3.3	3.2
DATE	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12
TIME														
0130	3.2	3.0	2.9	2.4	2.5	3.0	3.0	3.0	2.9	2.9	2.9	2.8	2.7	2.1
0300			2.9		2.5							2.8		
0430			3.0	2.4	2.6							2.7	2.7	
0600			3.1	2.3	2.7								2.6	
0730	3.2	3.0												
0900	3.1	2.9												2.1
1030		2.5			2.7									2.2
1200		2.2	3.1		2.8						2.9			
1330		2.1	3.0					3.0			2.8			
1500	3.1	2.1	2.9					2.9						
1630	3.2	2.4	2.8	2.3				2.4					2.6	
1800		2.6	2.7	2.4	2.8			2.3					2.5	
1930	3.2	2.8	2.6		2.9			2.3					2.4	
2100	3.1	2.9	2.5					2.4					2.1	
2230	3.0		2.4	2.4	2.9			2.6						
2400	3.0	2.9	2.4	2.5	3.0	3.0	3.0	2.9	2.9	2.9	2.8	2.7	2.1	2.2
DATE	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26
TIME														
0130	2.4	2.5	2.3	2.3	2.4	2.2	2.2	2.3	2.4	2.4	2.4	2.4	2.3	2.2
0300										2.3				
0430										2.3				
0600		2.5												
0730		2.6			2.4									
0900					2.3			2.3						
1030					2.2			2.4						
1200												2.4		
1330							2.2					2.5		
1500							2.1							
1630														
1800	2.4			2.3						2.3			2.3	
1930	2.5			2.4						2.4			2.2	
2100		2.6												
2230		2.7												
2400	2.5	2.7	2.3	2.4	2.2	2.2	2.1	2.4	2.4	2.4	2.4	2.5	2.2	2.2

LAKE MICHIGAN, STATION 37, 15 m continued.

DATE	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
TIME														
0130	2.2	2.2	2.2	2.1	2.2	2.2	2.2	2.3	2.0	2.2	2.2	2.2	2.2	2.1
0300														
0430														
0600			2.2					2.3						2.1
0730			2.1					2.2						2.0
0900														
1030								2.2						
1200				2.1				2.1	2.0					
1330				2.2					2.1					
1500													2.2	
1630													2.1	
1800			2.1					2.1	2.1					2.0
1930			2.2					2.0	2.2					2.1
2100														
2230														
2400	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.0	2.2	2.2	2.2	2.2	2.1	2.1
DATE	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23
TIME														
0130	2.1	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.1	2.2	2.2	1.9
0300												2.2	2.1	
0430												2.2	1.9	
0600			2.1									2.1	1.8	
0730			2.0										1.9	
0900	2.1							2.0						
1030	2.0							2.1				2.1		
1200												2.2		
1330														
1500									2.1					
1630									2.2					
1800		2.0								2.2	2.1			
1930		2.1								2.1	2.2			
2100														
2230														
2400	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.1	2.2	2.2	1.9	1.9
DATE	2-24	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
TIME														
0130	1.9	1.8	1.6	1.4	1.4	1.4	1.6	1.8	2.3	2.4	2.3	2.2	2.1	1.9
0300														
0430			1.6											
0600		1.8	1.5			1.4				2.4			2.1	1.9
0730		1.7				1.5			2.3	2.3			2.0	1.8
0900	1.9								2.4			2.2		
1030	1.8					1.5		1.8			2.3	2.1		
1200						1.6		1.9			2.2		2.0	
1330								1.9					1.9	
1500								2.0						
1630		1.7					1.6							
1800		1.6					1.7	2.0						1.8
1930							1.8	2.1						1.7
2100								2.1						
2230			1.5					2.2						
2400	1.8	1.6	1.4	1.4	1.4	1.6	1.8	2.2	2.4	2.3	2.2	2.1	1.9	1.7

LAKE MICHIGAN, STATION 37, 15 m continued.

DATE	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22
TIME														
0130	1.7	1.5	1.5	1.6	1.8	1.9	1.9	1.9	1.8	1.7	1.7	1.6	1.6	1.6
0300														
0430														
0600	1.7							1.9						
0730	1.6						1.9	1.8						
0900	1.5		1.5		1.8		1.8							
1030			1.6		1.9									
1200				1.6					1.8					
1330				1.7					1.7					
1500											1.7			
1630											1.6			
1800														
1930														1.6
2100				1.7										1.5
2230				1.8										
2400	1.5	1.5	1.6	1.8	1.9	1.9	1.8	1.8	1.7	1.7	1.6	1.6	1.6	1.5
DATE	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5
TIME														
0130	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5
0300	1.6									1.4				
0430	1.6													
0600	1.5											1.6		
0730										1.4		1.5	1.5	
0900										1.5	1.5		1.6	
1030											1.4		1.7	
1200											1.4			
1330											1.5		1.7	
1500													1.6	
1630													1.6	
1800													1.5	
1930			1.5								1.6			
2100			1.6											
2230														
2400	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.5
DATE	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19
TIME														
0130	1.6	1.7	1.8	1.9	1.7	2.1	2.1	2.4	2.5	2.6	2.6	2.6		
0300				1.8										
0430					1.7		2.1							
0600					1.8		2.2							
0730		1.7	1.8		2.0									
0900	1.6		1.9		2.1				2.5			2.6		
1030	1.7						2.2		2.6					
1200							2.3							
1330				1.8				2.4						
1500				1.7				2.5						
1630														
1800							2.3							
1930							2.4							
2100														
2230														
2400	1.7	1.8	1.9	1.7	2.1	2.1	2.4	2.5	2.6	2.6	2.6			

LAKE MICHIGAN - STATION 37. Depth 22 m.

Start 2 December 1963, 0900 CST; end 20 April 1964, 1705 CST.

Instrument serial no. 294, film record 20,162. Initial cal. 0°C; final cal. 0°C.

DATE	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15
TIME														
0130		5.5	5.5	5.3	5.1	5.0	5.0	5.0	5.1	5.2	5.2	5.0	4.8	5.2
0300		5.6	5.5										4.7	
0430		5.5	5.4										4.8	5.2
0600		5.6											4.9	5.3
0730		5.7	5.4						5.1				4.8	
0900	5.1	5.7	5.3						5.2					
1030	5.1	5.6		5.3										
1200	5.2			5.2				5.0					4.8	5.3
1330	5.1	5.6						5.1					4.9	5.4
1500		5.5		5.2										5.4
1630				5.1									4.9	5.5
1800											5.2		5.0	5.6
1930	5.1										5.1		5.0	5.7
2100	5.2											5.0	5.1	5.8
2230	5.3											4.9	5.1	5.9
2400	5.4	5.5	5.3	5.1	5.1	5.0	5.0	5.1	5.2	5.2	5.1	4.9	5.2	5.9

DATE	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29
TIME														
0130	5.9	5.9	6.0	5.9	5.6	5.3	5.2	5.1	5.0	5.0	5.1	5.0	5.0	4.2
0300														4.3
0430	5.9	5.9			5.6	5.3							5.0	4.4
0600	6.0	6.0			5.5	5.2							4.9	4.6
0730	5.9			5.9	5.5								4.8	4.8
0900	5.8			5.8	5.5								4.7	4.9
1030	5.6			5.8	5.4								4.6	
1200	5.4			5.7									4.4	
1330	5.4										5.1		4.2	
1500	5.5			5.7							5.0		4.1	
1630	5.6			5.6	5.4					5.0			4.0	
1800	5.7				5.3			5.1		5.1			4.1	
1930	5.8							5.0						
2100			6.0											
2230			5.9											
2400	5.8	6.0	5.9	5.6	5.3	5.2	5.2	5.0	5.0	5.1	5.0	5.0	4.1	4.9

DATE	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12
TIME														
0130	4.9	4.6	4.0	4.3	4.3	4.3	4.2	3.5	3.4	3.7	4.0	2.9	3.0	3.1
0300			4.0			4.2		3.6	3.2	3.9	4.0			
0430			4.1		4.3	4.2		3.7	3.1	3.9	3.9			
0600		4.6	4.2		4.2	4.1	4.2	3.9		4.0	3.9		3.0	
0730		4.5	4.3				4.1	4.0	3.1		3.8		3.1	3.1
0900		4.4	4.4					3.8	3.3					3.2
1030		4.3	4.5		4.2			3.6	3.4				3.1	
1200		4.3	4.6		4.1			3.4	3.6		3.8		3.2	
1330		4.2	4.5		4.1	4.1		3.3	3.9		3.7		3.3	
1500	4.9	4.2	4.4		4.2	4.2			3.6		3.7		3.5	3.2
1630	4.8	4.1	4.3		4.2		4.1	3.3	3.2		3.5		3.6	3.1
1800	4.7		4.2		4.3		4.0	4.0	3.2		3.4		3.5	
1930	4.7	4.1						4.1	3.2		3.2		3.4	
2100	4.6	4.0	4.2					3.8	3.9		3.0		3.3	
2230			4.3					3.6	3.7		2.9		3.2	
2400	4.6	4.0	4.3	4.3	4.3	4.2	4.0	3.5	3.5	4.0	2.9	2.9	3.2	3.1

LAKE MICHIGAN, STATION 37, 22 m continued.

DATE	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26
TIME														
0130	3.1	3.5	3.8	3.2	3.1	3.1	2.9	2.8	2.0	2.0	2.5	2.8	2.9	2.9
0300	3.1	3.5								2.1				
0430	3.2	3.6								2.1				
0600	3.2				3.1	3.1		2.8		2.2	2.5	2.8		
0730	3.3	3.6			3.2	3.0		2.7			2.6	2.9		
0900		3.7	3.8	3.2	3.2		2.9	2.7						
1030	3.3	3.8	3.7	3.1	3.1	3.0	3.0	2.6						
1200	3.4		3.6	3.1	3.1	2.9		2.6						
1330	3.4		3.5	3.0	3.0	2.9		2.5			2.6			
1500	3.5		3.4			2.8		2.5		2.2	2.7			
1630			3.4	3.0		2.8	3.0	2.4		2.3	2.7			
1800			3.3	3.1		2.7	2.9	2.4			2.8			
1930					3.0	2.7		2.3		2.3				
2100					3.1	2.9		2.2		2.4				
2230								2.1		2.5				
2400	3.5	3.8	3.3	3.1	3.1	2.9	2.9	2.0	2.0	2.5	2.8	2.9	2.9	2.9
DATE	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
TIME														
0130	2.9	2.8	2.8	2.8	2.8	2.9	2.8	2.7	2.7	2.6	2.5	2.2	2.3	2.4
0300														2.4
0430											2.5			2.3
0600					2.8						2.4	2.2		
0730					2.9						2.4	2.3		
0900											2.3			2.3
1030						2.8					2.3		2.3	2.4
1200		2.8				2.7			2.7		2.0		2.4	
1330		2.7												
1500		2.6				2.9								
1630		2.5				2.8								2.4
1800		2.5												2.5
1930	2.9	2.6									2.0			
2100	2.8	2.6									2.1			
2230		2.7									2.5			
2400	2.8	2.7	2.8	2.8	2.9	2.8	2.7	2.7	2.6	2.5	2.1	2.3	2.4	2.5
DATE	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23
TIME														
0130	2.6	2.7	2.3	2.2	2.0	2.1	2.0	2.0	2.1	2.2	2.3	2.3	2.2	2.1
0300														
0430	2.6													
0600	2.7		2.3											
0730			2.2								2.2			
0900					2.0						2.3			
1030				2.2	2.1							2.3		
1200				2.3		2.1		2.0				2.2		
1330				2.3		2.0		2.1						
1500				2.2	2.1									
1630		2.7			2.0									
1800		2.6		2.2										
1930		2.5		2.1										2.1
2100		2.4		2.1	2.0									2.2
2230		2.3		2.0	2.0									
2400	2.7	2.3	2.2	2.0	2.1	2.0	2.0	2.1	2.1	2.3	2.3	2.2	2.2	2.2

LAKE MICHIGAN, STATION 37, 22 m continued.

DATE	2-24	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
TIME														
0130	2.2	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0
0430				2.1										
0600				2.0										
0730								2.0	2.1					
0900								2.1	2.0					
1030														
1200		2.2												
1330		2.1												
1500														
1630														
1800														
1930														
2100														
2230														
2400	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0
DATE	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22
TIME														
0130	2.0	2.0	2.0	1.9	2.0	2.0	1.9	1.9	2.0	2.0	2.0	2.0	1.9	1.9
0300														
0430						2.0								
0600				1.9		1.9		1.9	2.0					1.9
0730				2.0				2.0	1.9					1.8
0900						1.9								1.8
1030						1.8								1.7
1200						1.8								
1330						1.7								
1500														
1630									1.9					
1800									2.0					
1930												2.0		
2100						1.7						1.9		
2230						1.8								
2400	2.0	2.0	2.0	2.0	2.0	1.8	1.9	2.0	2.0	2.0	2.0	1.9	1.9	1.7
DATE	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5
TIME														
0130	1.7	1.8	1.9	2.0	1.9	1.9	1.9	1.8	1.6	1.6	1.6	1.6	1.6	1.9
0300														
0430														
0600														
0730				2.0										
0900				1.9				1.8					1.6	
1030								1.7					1.7	
1200														
1330	1.7													
1500	1.8													
1630														
1800			1.8				1.9						1.7	
1930		1.9	1.9				1.8						1.8	
2100			2.0											
2230														
2400	1.8	1.9	2.0	1.9	1.9	1.9	1.8	1.7	1.6	1.6	1.6	1.6	1.8	1.9

LAKE MICHIGAN, STATION 37, 22 m continued.

DATE	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19
TIME														
0130	1.9	1.9	1.9	1.9	1.9	1.1	1.0	1.0	1.0	1.1	1.2	1.3	1.5	1.7
0300							0.9					1.3	1.5	
0430												1.4	1.4	
0600				1.9								1.5		
0730				2.0	1.9	1.1								1.7
0900					1.8	1.0								1.8
1030					1.7							1.5	1.4	
1200					1.6				1.0			1.6	1.5	
1330					1.5				1.1				1.6	
1500					1.4							1.6	1.7	
1630					1.3					1.1		1.5		
1800					1.2					1.2				
1930			1.9	2.0	1.1									
2100			1.8	1.9			0.9							
2230				1.9			1.0							
2400	1.9	1.9	1.8	1.9	1.1	1.0	1.0	1.0	1.1	1.2	1.2	1.5	1.7	1.8
DATE	4-21	4-21	4-22	4-23	4-24	4-25	4-26	4-27	4-28	4-29	4-30	5-1	5-2	5-3
TIME														
0130	1.8													
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630	1.8													
1800														
1930	End													
2100														
2230														
2400														

LAKE MICHIGAN - STATION 37. Depth 30 m.

Start 2 December 1963, 0900 CST; end 20 April 1964, 1705 CST.

Instrument serial no. 150, film record 20,163. Initial cal. 0°C; final cal. 0°C.

DATE	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15
TIME														
0130		4.9	4.8	4.4	4.2	4.2	4.3	4.3	4.0	5.0	5.2	5.2	5.0	4.9
0300														
0430									4.0			5.2		
0600						4.2			4.1			5.1		
0730						4.3			4.2					
0900				4.4				4.3	4.2					4.9
1030	4.2		4.8	4.3				4.2	4.3					4.8
1200			4.7					4.1	4.4					
1330			4.6						4.5	5.0				
1500		4.9	4.5					4.1	4.6	5.1				
1630		4.8						4.0	4.6	5.2		5.1		
1800				4.3					4.7			5.0		4.8
1930	4.2			4.2					4.9					4.7
2100	4.4												5.0	
2230	4.6		4.5						4.9				4.9	
2400	4.8	4.8	4.4	4.2	4.2	4.3	4.3	4.0	5.0	5.2	5.2	5.0	4.9	4.7

DATE	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29
TIME														
0130	4.7	4.6	4.2	3.2	3.8	3.5	3.5	3.5	3.0	3.0	3.0	2.5	2.9	2.9
0300		4.6		3.7										
0430	4.7	4.5		3.8										
0600	4.6													
0730											3.0	2.6		
0900		4.5									2.8	2.7		
1030		4.4	4.2								2.7	2.8		
1200		4.4	3.9								2.5	2.9		
1330		4.3	3.8		3.8				3.0		2.5			
1500			3.1		3.7				2.9					
1630					3.6			3.5	2.9					
1800		4.3			3.5			3.4	3.0					
1930		4.2			3.4			3.1						
2100					3.2			3.0						
2230					3.2									
2400	4.6	4.2	3.1	3.8	3.3	3.5	3.5	3.0	3.0	3.0	2.5	2.9	2.9	2.9

DATE	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12
TIME														
0130	2.9	2.8	2.6	2.0	1.9	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0
0300														
0430			2.6											
0600			2.5	2.0										2.0
0730				1.9	1.9									1.9
0900					2.0									1.3
1030	2.9													1.2
1200	2.8			1.9										
1330				1.8										
1500														
1630		2.8	2.5	1.8									2.1	
1800		2.7	2.4	1.9		2.0							2.0	1.2
1930		2.7	2.3		2.1									1.3
2100		2.6	2.2											1.4
2230			2.2											1.5
2400	2.8	2.6	2.1	1.9	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	1.6

LAKE MICHIGAN, STATION 37, 30 m continued.

DATE	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26
TIME														
0130	1.6	1.7	2.1	2.0	2.0	1.8	1.6	1.6	1.8	1.8	1.8	1.8	1.8	1.8
0300					1.9	1.7								
0430						1.7								
0600						1.6		1.6						1.8
0730		1.7			1.9			1.7						1.7
0900		1.8			1.8									
1030														
1200		1.8												
1330		1.9	2.1					1.7						
1500	1.6		2.0					1.8						
1630	1.7	1.9												
1800		2.0												
1930														
2100														
2230		2.0												
2400	1.7	2.1	2.0	2.0	1.8	1.6	1.6	1.8	1.8	1.8	1.8	1.8	1.8	1.7
DATE	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
TIME														
0130	1.7	1.7	1.6	1.3	1.3	1.3	1.3	1.3	1.3	1.1	1.2	1.2	1.2	1.1
0300			1.5											
0430			1.4											
0600														
0730									1.3					
0900									1.2					
1030														
1200														
1330										1.1				
1500										1.2				
1630									1.2					
1800		1.7							1.1					1.1
1930		1.6	1.4			1.3								1.0
2100			1.3			1.2								
2230													1.2	
2400	1.7	1.6	1.3	1.3	1.3	1.3	1.2	1.3	1.1	1.2	1.2	1.2	1.1	1.0
DATE	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23
TIME														
0130	1.0	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
0300														
0430														
0600	1.0													
0730	1.1													
0900														
1030														
1200														
1330														
1500														
1630		1.1												
1800		1.0												
1930														
2100														
2230														
2400	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

LAKE MICHIGAN, STATION 37, 30 m continued.

DATE	2-24	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
TIME														
0130	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.8	0.9	1.0	1.1	1.0	1.0	0.9
0430							0.7							
0600							0.8							
0730								0.8						
0900								0.9		1.0				
1030										1.1				
1200						0.7								
1330						0.8							1.0	
1500													0.9	
1630											1.1			
1800			1.0			0.8			0.9		1.0			
1930			0.9			0.7			1.0					
2100			0.8											
2230			0.8											
2400	1.0	1.0	0.7	0.7	0.7	0.7	0.8	0.9	1.0	1.1	1.0	1.0	0.9	0.9
DATE	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22
TIME														
0130	0.9	0.9	0.9	0.8	0.8	0.7	0.8	0.9	0.9	0.9	0.9	0.8	0.6	0.6
0300														
0430														
0600						0.7								
0730						0.8								
0900														
1030														
1200														
1330														
1500											0.9			
1630											0.8			
1800			0.9									0.8		
1930			0.8									0.7		
2100					0.8							0.6		
2230					0.7									
2400	0.9	0.9	0.8	0.8	0.7	0.8	0.8	0.9	0.9	0.9	0.8	0.6	0.6	0.6
DATE	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5
TIME														
0130	0.6	0.5	0.6	0.6	0.1	0.1	0.3	0.3	0.1	0.1	0.1	0.2	0.0	0.1
0300				0.6		0.1						0.1		
0430				0.5		0.2						0.3	0.2	
0600	0.6			0.4	0.1			0.3				0.2	0.1	
0730	0.5	0.5			0.2			0.2						
0900		0.6		0.4	0.1									
1030				0.3										
1200													0.0	0.1
1330								0.2				0.1	0.1	0.2
1500				0.3	0.1			0.1				0.0		0.3
1630				0.2	0.2									
1800				0.2	0.1	0.2								
1930				0.1		0.3								
2100														
2230														
2400	0.5	0.6	0.6	0.1	0.1	0.3	0.3	0.1	0.1	0.1	0.2	0.0	0.1	0.3

LAKE MICHIGAN, STATION 37, 30 m continued.

DATE	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19
TIME														
0130	0.3	0.1	0.3	0.1	0.1	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.2
0300														
0430														
0600		0.1												
0730		0.2			0.1	0.3								
0900		0.2			0.2	0.4								
1030		0.3				0.6								
1200			0.3			0.7								
1330			0.2			0.9								
1500														
1630					0.2									
1800	0.3		0.2		0.3	0.9						1.0		
1930	0.2		0.1			1.0						1.1		
2100	0.2											1.2		
2230	0.1													
2400	0.1	0.3	0.1	0.1	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.2	1.2
DATE	4-20	4-21	4-22	4-23	4-24	4-25	4-26	4-27	4-28	4-29	4-30	5-1	5-2	5-3
TIME														
0130	1.2													
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500	1.2													
1630														
1800	End													
1930														
2100														
2230														
2400														

LAKE MICHIGAN - STATION 37. Depth 60 m.

Start 2 December 1963, 0900 CST; end 20 April 1964, 1705 CST.

Instrument serial no. 353, film record 20,164. Initial cal. 0.5°C; final cal. 0.4°C.

DATE	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15
TIME														
0130		4.6	4.5	4.5	4.5	4.5	4.5	4.5	4.4	4.7	5.2	5.1	4.9	4.6
0300			4.6		4.5				4.4			5.0	4.9	4.5
0430		4.6			4.4				4.5		5.2	4.9	4.8	
0600		4.5						4.5	4.6		5.3	5.1	4.8	
0730								4.4	4.7	4.7		5.2	4.7	4.5
0900	4.5		4.6						4.8	4.8				4.4
1030			4.5							4.8	5.3	5.2		4.2
1200					4.4				4.8	4.9	5.4	5.1		4.4
1330					4.5				4.6	5.0				4.4
1500								4.4		5.1			4.7	4.5
1630	4.5							4.3	4.6	5.2			4.6	
1800	4.6						4.5	4.3	4.7	5.3	5.4	5.1		
1930							4.6	4.4	4.8	5.2	5.3	5.0		
2100							4.6	4.4	4.8		5.2	4.9		
2230							4.5	4.3	4.7		5.1			
2400	4.6	4.5	4.5	4.5	4.5	4.5	4.5	4.3	4.7	5.2	5.1	4.9	4.6	4.5

DATE	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29
TIME														
0130	4.5	4.5	4.5	4.0	4.2	3.6	3.7	4.0	3.7	3.5	3.4	2.6	3.2	3.4
0300				4.3			3.8	4.0	3.5		3.4	2.6	3.2	
0430				4.4		3.6	3.7	3.9	3.4		3.3	2.7	3.1	
0600			4.5	4.4		3.7	3.6	3.8	3.4		3.0	2.9		
0730			4.1	4.3		3.5			3.5	3.5	2.6	3.1		
0900			3.8	4.3	4.2	3.5			3.6	3.6	2.5	3.4		
1030			3.6	3.9	3.8	3.6			3.5	3.7		3.5	3.1	
1200			3.5	4.3	3.9	3.7	3.6	3.8	3.5			3.5	3.2	
1330			3.4	4.4	3.6	3.7	3.7	3.7	3.1			3.4		
1500						3.8	3.9		3.1		2.5	3.4	3.2	
1630			3.4			3.9	4.0	3.7	3.4		2.6	3.3	3.3	
1800			3.5					3.6	3.4	3.7	2.5			
1930					3.6			3.5	3.6	3.6		3.3		
2100			3.5		3.5			3.6	3.5	3.5		3.2	3.3	3.4
2230			3.6		3.5	3.9		3.5	3.4	3.5	2.5		3.4	3.3
2400	4.5	4.5	3.8	4.4	3.6	3.7	4.0	3.6	3.5	3.4	2.6	3.2	3.4	3.3

DATE	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12
TIME														
0130	3.3	3.0	2.8	2.8	2.6	2.5	2.5	2.6	2.4	2.5	2.6	2.6	2.3	2.1
0300	3.3	3.1			2.5				2.5					
0430	3.2			2.8	2.7							2.6		2.1
0600			2.8	2.9	2.8							2.5		2.0
0730			2.9		2.9					2.5				1.9
0900	3.2		3.0		2.8			2.6		2.6				1.7
1030	3.1		2.9		2.8			2.5		2.7				1.8
1200	3.0	3.1	2.7		2.7									1.9
1330	3.0	3.2	2.6									2.5	2.3	2.0
1500	2.9		2.5								2.6	2.4	2.2	
1630					2.7						2.5			
1800	2.9		2.5		2.6									
1930	3.0		2.7	2.9	2.5									2.0
2100			2.7	2.8				2.5					2.2	2.1
2230		3.2	2.8	2.8				2.4		2.5			2.1	
2400	3.0	3.1	2.8	2.6	2.5	2.5		2.4	2.5	2.6	2.7	2.4	2.1	2.1

LAKE MICHIGAN, STATION 37, 60 m continued.

DATE	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26
TIME														
0130	2.1	2.2	2.6	2.6	2.6	1.9	2.0	2.1	2.3	2.2	2.1	2.0	2.0	2.3
0300		2.3	2.6		2.6	2.0		2.1	2.2			2.0	2.2	2.3
0430			2.7		2.7	2.0	2.0	2.2			2.1	1.9	2.3	2.2
0600		2.3		2.6		2.1	2.1				2.2		2.4	
0730		2.2		2.5		2.2			2.2					
0900					2.7			2.2	2.3				2.4	
1030	2.1	2.2	2.7		2.6	2.2		2.3	2.4				2.3	2.2
1200	2.0	2.5	2.6		2.3	2.1		2.3	2.4			1.9	2.2	2.1
1330		2.5	2.5		2.1	2.0		2.2	2.5		2.2	1.8	2.1	
1500	2.0	2.6			1.9				2.5		2.1			
1630	2.1		2.5						2.4					
1800			2.7	2.5					2.2					
1930	2.1		2.9	2.6	1.9			2.2	2.2					
2100	2.2		3.0		2.0			2.3	2.3			1.8	2.1	
2230			2.6		1.9						2.1	1.9	2.0	
2400	2.2	2.6	2.5	2.6	1.9	2.0	2.1	2.3	2.3	2.2	2.0	2.0	2.2	2.1
DATE	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
TIME														
0130	2.2	2.0	1.9	2.2	2.2	2.2	2.0	1.8	2.1	2.1	2.2	2.2	2.2	1.8
0300			1.9				2.0	1.8						
0430			2.0				1.9	1.9		2.1				
0600			2.0					2.0		2.2				1.8
0730			2.1				1.9							1.7
0900	2.2						1.8	2.0						1.7
1030	2.1	2.0						2.1						1.8
1200		1.9	2.1											
1330			2.2			2.2								
1500	2.1					2.1		2.1	2.1				2.2	
1630	2.0							2.0	2.0				2.1	
1800				2.2									1.9	
1930				2.3		2.1	1.8						1.7	
2100				2.3		2.0	1.7						1.7	1.8
2230				2.2					2.0				1.8	1.7
2400	2.0	1.9	2.2	2.2	2.2	2.0	1.7	2.0	2.1	2.2	2.2	2.2	1.8	1.6
DATE	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23
TIME														
0130	1.8	2.0	2.3	2.4	2.3	2.3	2.3	1.9	2.9	2.3	1.7	1.6	1.6	1.9
0300	1.8				2.4		2.3	2.1		2.2	1.7			1.9
0430	1.8					2.3	2.2	2.2			1.6			1.8
0600	1.9	2.0	2.3			2.4	1.8	2.4						1.7
0730		2.1	2.2		2.4		1.6			2.2				
0900		2.2			2.3		1.5			2.0				1.7
1030					2.3					1.9				1.6
1200	1.9		2.3		2.2				2.9	2.0				
1330	2.0	2.2			2.0		1.5	2.4	2.4	1.9				
1500	1.7	2.3			2.0		1.6	2.3	2.3					
1630	1.8				2.1			2.4		1.9				
1800					2.2					1.8			1.6	
1930					2.3	2.4				1.9			1.7	
2100	1.8					2.3	1.6	2.4		1.7			1.7	
2230	1.9						1.7	2.5					1.8	
2400	2.0	2.3	2.3	2.4	2.3	2.3	1.7	2.5	2.3	1.7	1.6	1.6	1.9	1.6

LAKE MICHIGAN, STATION 37, 60 m continued.

DATE TIME	2-24	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
0130	1.6	1.6	1.8	1.8	2.0	2.2	2.5	2.5	2.5	1.8	1.8	1.6	1.6	1.5
0300				1.8	2.0	2.2					1.7			
0430				1.7	1.9	2.3			2.5					
0600	1.6				2.0				2.4		1.7			
0730	1.5								1.9	1.8	1.6			
0900			1.8			2.3			1.7	1.9				
1030	1.5		1.7	1.7		2.4			1.6				1.6	
1200	1.6		1.7	1.8									1.5	
1330			1.8	1.9										
1500										1.9				
1630					2.0					1.8				1.5
1800					2.1	2.4				1.7				1.4
1930				1.9	2.5									
2100		1.6		2.0	2.1									
2230		1.7			2.2				1.6	1.7				
2400	1.6	1.7	1.8	2.0	2.2	2.5	2.5	2.5	1.7	1.8	1.6	1.6	1.5	1.4
DATE TIME	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22
0130	1.4	1.4	1.2	1.0	1.0	1.4	1.8	1.6	1.7	1.5	1.6	1.5	1.0	1.1
0300			1.2			1.4			1.7			1.5		
0430		1.4	1.1			1.3			1.6			1.4		
0600		1.3												
0730					1.0			1.6						
0900					0.9	1.3		1.7						
1030						1.2							1.0	
1200		1.3				1.3							1.1	
1330		1.2			0.9	1.4		1.7						
1500					0.8	1.5		1.8		1.5		1.4		
1630						1.6				1.6		1.3		
1800	1.4					1.7	1.8	1.8	1.6			1.1		
1930	1.5		1.1			1.6	1.7	1.7	1.5		1.6	1.0		
2100			1.0			1.7	1.6	1.6			1.5			
2230	1.5					1.8		1.6				1.0		
2400	1.4	1.2	1.0	1.0	0.8	1.8	1.6	1.7	1.5	1.6	1.5	1.1	1.1	1.1
DATE TIME	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5
0130	1.1	1.1	1.4	0.9	0.6	1.3	1.6	1.2	0.8	1.2	1.4	0.8	0.8	1.3
0300		1.1	1.5	0.8		1.3		1.1		1.3		0.8		1.2
0430		1.2	1.5	0.7		1.4		1.0		1.0		0.7	0.8	1.1
0600		1.3	1.3	0.8			1.6			0.9		0.7	0.7	1.2
0730		1.4	1.2				1.7	1.0		0.8		0.6		1.3
0900		1.5	1.2					0.9		0.8			0.7	1.4
1030		1.6	1.1	0.8		1.4				1.0			0.9	
1200		1.6		0.7		1.5				1.1	1.4		1.1	
1330		1.5	1.1			1.6				1.3	1.5		1.2	
1500		1.4	1.0	0.7	0.6					1.3	1.5		1.3	1.4
1630			0.9	0.6	0.7		1.7	0.9	0.8	1.2	1.6		1.2	1.5
1800					0.7		1.8	0.8	0.9	1.2			1.0	
1930		1.4			0.8		1.7		1.0	1.3	1.6	0.6	1.1	
2100		1.5	0.9		1.1		1.5		1.1	1.4	1.4	0.7	1.2	
2230			1.0		1.2		1.5		1.2	1.5	0.9	0.7	1.3	
2400	1.1	1.5	0.9	0.6	1.3	1.6	1.4	0.8	1.2	1.4	0.8	0.8	1.3	1.5

LAKE MICHIGAN, STATION 37, 60 m continued.

DATE TIME	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19
0130	1.5	1.2	1.3	0.7	0.9	1.6	1.8							
0300	1.4	1.2	1.1		0.9		1.9							
0430		1.0	0.9		0.9		1.9							
0600	1.4	1.4	0.8		1.0									
0730	1.5	1.5		0.7	1.1		End of record							
0900		1.5		0.8	1.2	1.6								
1030		1.6			1.3	1.7								
1200					1.4									
1330	1.5				1.4	1.7								
1500	1.4	1.6	0.8		1.5	1.8								
1630	1.4	1.5	0.7		1.5									
1800	1.2	1.5			1.6									
1930	1.1	1.4												
2100	1.0			0.8										
2230	1.0			0.9										
2400	1.1	1.4	0.7	0.9	1.6	1.8								

LAKE MICHIGAN - STATION 38. Depth 10 m.

Start 2 December 1963, 1200 CST; end 3 May 1964, 1635 CST.

Instrument serial no. 302, film record 20,171. Initial cal. 0.5°C; final cal. 0°C.

DATE TIME	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15
0130		7.1	7.0	6.8	6.2	6.3	6.5	6.7	6.0	6.0	6.1	6.0	5.7	5.7
0300		7.1		6.7	6.0		6.6		6.0		6.0			5.6
0430		7.0			5.9				5.8					
0600					6.1		6.6		5.8					
0730					6.2		6.7	6.7	5.7		6.0	6.0		
0900				6.7	6.2	6.3		6.5	5.7		6.1	5.9		
1030				6.8	6.3	6.4		6.0	5.8			5.8		
1200				6.8	6.3	6.5		5.6	6.0			5.8		
1330	7.0		7.0	6.7	6.4	6.6		5.5				5.9		
1500	7.1		6.9	6.7	6.5	6.7		5.7		6.0		5.9		
1630		7.0	6.8	6.6	6.5	6.7		6.0		6.1		5.7		
1800		6.9		6.5	6.4	6.6		6.2						
1930		7.0		6.4	6.3	6.5						5.7		
2100				6.3								5.8		
2230				6.2								5.7		
2400	7.1	7.0	6.8	6.2	6.3	6.5	6.7	6.2	6.0	6.1	6.1	5.7	5.7	5.6

LAKE MICHIGAN, STATION 38, 10 m continued.

DATE	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29
TIME														
0130	5.6	5.6	5.6	5.4	5.2	5.1	5.1	5.1	5.0	4.9	4.8	4.7	4.7	4.6
0300			5.6	5.3				5.1		4.8	4.8		4.7	
0430			5.5		5.2			5.0			4.7		4.6	
0600		5.6			5.1									
0730		5.5								4.8				
0900		5.5	5.5							4.7				
1030		5.6	5.4										4.6	4.6
1200													4.5	4.5
1330				5.3					5.0					
1500				5.2					4.9					
1630														
1800			5.4							4.7				
1930			5.5							4.8				
2100								5.0						
2230			5.5					4.9						
2400	5.6	5.6	5.4	5.2	5.1	5.1	5.1	4.9	4.9	4.8	4.7	4.7	4.5	4.5
DATE	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12
TIME														
0130	4.5	4.5	4.4	4.5	4.5	4.5	4.3	4.4	3.9	4.0	4.4	4.1	4.0	4.1
0300		4.4				4.4			4.2	4.0				
0430		4.3				4.4			4.1	4.2		4.1		
0600						4.3		4.4	4.3	4.3	4.4	4.0		
0730								4.3	4.1	4.4	4.3			
0900								4.3	4.2	4.5			4.0	
1030								3.7		4.6			4.1	4.1
1200						4.3		3.5	4.2		4.3			4.0
1330				4.5		4.2	4.3		4.3		4.1			
1500				4.6			4.4				4.0			
1630								3.5						4.0
1800								3.6						4.1
1930					4.5			3.5						
2100			4.4		4.6			3.5		4.6				
2230			4.3	4.6	4.6			3.5						
2400	4.5	4.3	4.3	4.5	4.5	4.2	4.4	3.4	4.3	4.5	4.0			
DATE	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26
TIME														
0130	4.1	4.1	4.0	4.0	4.0	4.0	4.0	4.0	3.7	4.0	3.8	3.0	3.5	3.2
0300		4.1						4.0				3.0		3.3
0430		4.0						3.9				3.1		3.3
0600									3.7		3.8	3.1	3.5	3.4
0730									3.8		3.7	3.2	3.1	3.4
0900									3.8		3.7	3.2	2.9	3.5
1030								3.9	4.0		3.5	3.3	2.8	
1200								3.8		4.0	3.2	3.4		3.5
1330										3.9	3.0	3.5		3.4
1500													2.8	
1630													2.9	
1800										3.9	3.0		2.9	
1930										3.8	3.1		3.0	
2100								3.8			3.2		3.0	3.4
2230								3.7			3.2		3.1	3.3
2400	4.1	4.0	4.0	4.0	4.0	4.0	4.0	3.7	4.0	3.8	3.1	3.5	3.2	3.3

LAKE MICHIGAN, STATION 38, 10 m continued.

DATE	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
TIME														
0130	3.3	3.1	3.2	3.3	3.3	2.7	2.9	2.9	2.7	2.7	2.5	2.6	2.4	2.8
0300	3.2				3.3					2.6				
0430					3.2	2.7				2.5			2.4	2.8
0600		3.1			3.2	2.6						2.6	2.5	2.9
0730	3.2	3.2			3.1			2.9				2.5	2.5	
0900	3.1	3.2			3.0			2.8					2.6	
1030	3.2	3.3												
1200	3.1		3.2			2.6		2.8				2.5		
1330			3.3			2.7		2.7				2.4		
1500					3.0	2.8					2.5			2.9
1630					2.9	2.9					2.6			2.8
1800					2.9	3.0							2.6	2.7
1930					2.8								2.7	
2100					2.8	3.0								2.7
2230					2.7	2.9							2.7	2.6
2400	3.1	3.3	3.3	3.3	2.7	2.9	2.9	2.7	2.7	2.5	2.6	2.4	2.8	2.6
DATE	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23
TIME														
0130	2.6	2.7	2.7	2.5	2.8	2.8	2.9	2.9	2.9	2.6	2.6	2.6	2.6	2.7
0300		2.7	2.6			2.8			2.9					
0430		2.8				2.7			2.8				2.6	
0600	2.6			2.5					2.8	2.6			2.5	
0730	2.5			2.6					2.7	2.5				
0900		2.8												
1030		2.7											2.5	
1200				2.6									2.6	2.7
1330				2.7										2.6
1500			2.6			2.7								2.5
1630			2.5		2.8	2.8				2.5				
1800					2.9	2.9				2.6				
1930				2.7	2.9									
2100	2.5			2.8	2.8								2.6	
2230	2.6												2.7	
2400	2.7	2.7	2.5	2.8	2.8	2.9	2.9	2.9	2.7	2.6	2.6	2.6	2.8	2.5
DATE	2-24	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
TIME														
0130	2.5	2.3	2.4	2.4	2.5	2.4	2.3	2.1	2.1	2.0	2.1	2.3	2.3	2.3
0300	2.5		2.5	2.4		2.4	2.3		2.1		2.1			2.3
0430	2.4			2.5		2.3	2.2		2.0		2.0			2.2
0600					2.5								2.3	2.2
0730					2.4								2.2	2.1
0900	2.4										2.0	2.2		2.1
1030	2.3	2.3							2.0		2.1	2.2		2.2
1200		2.4	2.5						2.1			2.3		2.3
1330		2.5	2.4								2.1			
1500		2.5			2.4						2.2	2.3	2.2	
1630		2.4			2.5							2.4	2.3	
1800				2.5						2.0			2.3	2.3
1930				2.4						2.1			2.4	2.2
2100						2.2			2.1		2.2	2.4	2.4	2.2
2230					2.5	2.1			2.0		2.3	2.3	2.3	2.1
2400	2.3	2.4	2.4	2.4	2.4	2.3	2.1	2.1	2.0	2.1	2.3	2.3	2.3	2.1

LAKE MICHIGAN, STATION 38, 10 m continued.

DATE	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22
TIME														
0130	2.1	2.2	2.0	2.0	2.3	2.6	2.1	1.9	2.1	2.3	2.0	2.3	2.5	2.2
0300	2.1	2.2	1.9	2.0		2.6	2.0		2.1					2.1
0430	2.0	2.1		1.9		2.5			2.2					
0600		2.0	1.9	1.9		2.4			2.2					
0730		1.9	2.0	1.8					2.3					
0900	2.0		2.2					1.9	2.3					2.1
1030	2.2		2.6					2.0	2.4	2.3				2.2
1200	2.3		2.6	1.8	2.3					2.2				2.2
1330	2.4		2.5	2.0	2.4						2.0			2.3
1500			2.3	2.3	2.5	2.4					2.1			2.4
1630	2.4		2.1	2.4		2.3								2.5
1800	2.3		1.9		2.5				2.4		2.1			2.5
1930					2.6				2.3		2.2			2.4
2100	2.3			2.4						2.2	2.2	2.3		2.4
2230	2.2			2.3		2.3	2.0	2.0		2.1	2.3	2.4	2.5	2.3
2400	2.2	1.9	1.9	2.3	2.6	2.2	1.9	2.1	2.3	2.0	2.3	2.4	2.4	2.3
DATE	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5
TIME														
0130	2.3	2.3	2.3	2.3	2.4	2.4	2.3	2.2	2.3	2.4	2.4	2.5	2.5	2.4
0300				2.3			2.3							
0430				2.2			2.2							
0600						2.4								
0730	2.3					2.3								
0900	2.2	2.3		2.2							2.4	2.4		
1030		2.4		2.3					2.3		2.5		2.5	
1200									2.4				2.4	
1330		2.4												
1500		2.3												
1630		2.2						2.2						
1800	2.2			2.3				2.3				2.4		
1930	2.3			2.4								2.5		
2100		2.2												
2230		2.3												
2400	2.3	2.3	2.3	2.4	2.4	2.3	2.2	2.3	2.4	2.4	2.5	2.5	2.4	2.4
DATE	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19
TIME														
0130	2.4	2.4	2.4	2.2	2.3	2.3	2.3	2.4	2.4	2.4	2.5	2.4	2.3	2.4
0300														
0430														
0600			2.4										2.3	
0730			2.3				2.3				2.5		2.4	
0900							2.4				2.4			
1030				2.2										
1200				2.3										
1330														
1500														
1630										2.4				
1800										2.5				
1930														
2100												2.4		
2230												2.3		
2400	2.4	2.4	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.5	2.4	2.3	2.4	2.4

LAKE MICHIGAN, STATION 38, 10 m continued.

DATE	4-20	4-21	4-22	4-23	4-24	4-25	4-26	4-27	4-28	4-29	4-30	5-1	5-2	5-3
TIME														
0130	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.4		
0300												2.4		
0430														
0600														
0730											2.5	Data ends		
0900											2.4			
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100										2.4				
2230										2.5				
2400	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.4			

LAKE MICHIGAN - STATION 38. Depth 15 m.

Start 2 December 1963, 1200 CST; end 3 May 1964, 1635 CST.

Instrument serial no. 270, film record 20,172. Initial cal. 0°C; final cal. Indet.

DATE	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15
TIME														
0130		6.9	6.9	6.7	6.1	6.1	6.2	6.3	6.0	5.9	5.9	5.9	5.7	5.6
0300				6.7	6.0		6.2							
0430				6.6	5.9		6.3			5.9				
0600					6.0					6.0	5.9			
0730								6.3	6.0		6.0			5.6
0900			6.9			6.1		6.2	5.9					5.5
1030			6.8		6.0	6.2		6.1						
1200					6.1	6.2		6.0						
1330	6.8	6.9				6.3		5.4				5.9		
1500	6.9	6.8	6.8	6.6				5.5			6.0	5.8		
1630		6.7	6.7	6.5				5.6			5.9			
1800		6.8		6.4		6.3		5.9		6.0				
1930		6.9		6.3		6.2		6.0		5.9			5.7	
2100				6.2		6.1							5.6	
2230				6.1		6.2						5.8		
2400	6.9	6.9	6.7	6.1	6.1	6.2	6.3	6.0	5.9	5.9	5.9	5.7	5.6	5.5

LAKE MICHIGAN, STATION 38, 15 m continued.

DATE	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29
TIME														
0130	5.5	5.5	5.4	5.2	5.1	5.0	5.0	5.0	4.9	4.9	4.8	4.7	4.6	4.6
0300														
0430														
0600			5.4											
0730			5.3		5.1									
0900				5.2	5.0									
1030				5.1							4.8			
1200											4.7			
1330														
1500										4.9				
1630								5.0		4.8				
1800								4.9						4.6
1930		5.5	5.3											4.5
2100		5.4	5.2									4.7		
2230												4.6		
2400	5.5	5.4	5.2	5.1	5.0	5.0	5.0	4.9	4.9	4.8	4.7	4.6	4.6	4.5
DATE	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12
TIME														
0130	4.5	4.4	4.3	4.3	4.3	4.3	4.3	4.2	4.1	4.1	4.1	4.0	4.0	4.1
0300										4.2				
0430								4.2		4.3				
0600								4.0						
0730								3.8				4.1		
0900											4.0			4.1
1030														4.0
1200														
1330														
1500		4.4								4.3				
1630		4.3					4.3		4.1	4.2			4.0	
1800							4.2		4.0	4.1			4.1	
1930	4.5							3.8	4.0					
2100	4.4							4.0	3.9	4.1				
2230								4.0	4.0	4.0				
2400	4.4	4.3	4.3	4.3	4.3	4.3	4.2	4.1	4.1	4.1	4.0	4.0	4.1	4.0
DATE	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26
TIME														
0130	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	4.0	3.9	3.0	3.2	3.0
0300											3.9	3.0	3.0	
0430											3.8	3.1	2.9	
0600									3.9		3.5			3.0
0730									4.0		3.3	3.1		3.1
0900								4.0			3.1	3.2		
1030								3.9		4.0	3.0			
1200										3.9				
1330														3.1
1500													2.9	3.0
1630													3.0	
1800														
1930														
2100														
2230														
2400	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	4.0	3.9	3.0	3.2	3.0	3.0

LAKE MICHIGAN, STATION 38, 15 m. continued.

DATE	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
TIME														
0130	3.0	3.0	3.0	3.0	3.0	2.8	2.9	2.9	2.7	2.6	2.4	2.5	2.4	2.8
0300						2.8								
0430						2.7						2.5		
0600				3.0		2.8		2.9		2.6		2.4		
0730				3.1				2.8		2.5				
0900													2.4	
1030						2.8					2.4	2.5		
1200					3.0	2.9					2.5			2.8
1330				3.1	2.9	3.0								2.7
1500				3.0		2.9		2.8					2.5	2.7
1630								2.7					2.6	2.6
1800					2.9					2.5				2.6
1930					2.8				2.7	2.4			2.6	2.5
2100									2.6				2.7	
2230													2.7	
2400	3.0	3.0	3.0	3.0	2.8	2.9	2.9	2.7	2.6	2.4	2.5	2.4	2.8	2.5
DATE	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23
TIME														
0130	2.5	2.8	2.7	2.7	2.9	2.8	2.9	2.8	2.8	2.5	2.5	2.5	2.4	2.5
0300						2.8								
0430						2.7								
0600	2.5											2.5		
0730	2.4				2.9				2.8			2.4		
0900					2.8	2.7			2.7					2.5
1030		2.8				2.8								2.4
1200		2.7												
1330														
1500							2.9		2.7					
1630				2.7			2.8		2.6					
1800	2.4					2.8							2.4	
1930	2.5					2.9							2.5	
2100	2.6								2.6					
2230	2.7			2.8					2.5					
2400	2.8	2.7	2.7	2.9	2.8	2.9	2.8	2.8	2.5	2.5	2.5	2.4	2.5	2.4
DATE	2-24	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
TIME														
0130	2.4	2.4	2.4	2.4	2.3	2.3	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1
0300														
0430						2.3								
0600						2.2			2.1					2.1
0730									2.0					2.2
0900	2.4													
1030	2.3													
1200													2.1	
1330													2.2	
1500														2.2
1630						2.2					2.0			2.1
1800	2.3					2.1					2.1			
1930	2.4			2.4										
2100				2.3									2.2	
2230													2.1	
2400	2.4	2.4	2.4	2.3	2.3	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1

LAKE MICHIGAN, STATION 38, 15 m. continued.

DATE	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22
TIME														
0130	2.1	2.0	2.1	2.0	2.1	2.1	1.9	1.9	2.0	2.1	1.9	2.1	2.2	2.0
0300		1.9	2.4	1.9										2.0
0430			2.7	1.8										2.1
0600	2.1		2.8	1.8							1.9			
0730	2.2		2.6	1.9						2.1	2.0			
0900	2.3		2.4	1.9						2.0				2.1
1030				2.0										2.2
1200	2.3		2.4	2.2										2.3
1330	2.2		2.0		2.1				2.0					
1500	2.1			2.2	2.2				2.1					
1630				2.1	2.2									
1800	2.1	1.9			2.3	2.1		1.9		2.0		2.1		2.3
1930	2.0	2.0				2.0	1.9	2.0		1.9		2.2	2.2	2.2
2100						2.0	1.8						2.1	
2230						1.9							2.0	
2400	2.0	2.0	2.0	2.1	2.3	1.9	1.8	2.0	2.1	1.9	2.0	2.2	2.0	2.2
DATE	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5
TIME														
0130	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.3	2.2	2.2	2.1
0300														
0430	2.2													
0600	2.1												2.2	
0730									2.2				2.1	
0900									2.3					
1030		2.1												
1200		2.0												
1330								2.1						
1500								2.2						
1630														
1800											2.3			
1930		2.0									2.2			
2100		2.1												
2230														
2400	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.3	2.2	2.2	2.1	2.1
DATE	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19
TIME														
0130	2.1	2.3	2.2	2.2	2.4	2.4	2.4	2.3	2.2	2.2	2.2	2.2	2.4	2.4
0300														
0430														
0600				2.2								2.2		
0730	2.1			2.3								2.3		
0900	2.2							2.3						
1030							2.4	2.2						
1200							2.3							
1330														
1500														
1630				2.3								2.3		
1800				2.4								2.4		2.4
1930														2.3
2100		2.3												
2230		2.2												
2400	2.2	2.2	2.2	2.4	2.4	2.4	2.3	2.2	2.2	2.2	2.2	2.4	2.4	2.3

LAKE MICHIGAN, STATION, 38, 15 m. continued.

DATE TIME	4-20	4-21	4-22	4-23	4-24	4-25	4-26	4-27	4-28	4-29	4-30	5-1	5-2	5-3
0130	2.3	2.2	2.1	2.2	2.3	2.4								
0300														
0430														
0600														
0730														
0900														
1030			2.1	2.2										
1200			2.2	2.3										
1330	2.3													
1500	2.2				2.3									
1630					2.4									
1800		2.2												
1930		2.1												
2100														
2230						2.4								
2400	2.3	2.1	2.2	2.3	2.4	ran out of film, Data ends.								

LAKE MICHIGAN - STATION 38. Depth 22 m.

Start 2 December 1963, 1200 CST; end 3 May 1964, 1635 CST.

Instrument serial no. 148, film record 20,173. Initial cal. +0.2°C; final cal. 0°C.

DATE TIME	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15
0130		7.0	6.9	6.8	6.7	6.0	6.1	6.2	6.4	5.2	6.0	6.0	6.0	6.0
0300			6.9							5.4				
0430			7.0		6.7					5.6				
0600					6.6					5.8				
0730					6.5					6.0				
0900			7.0		6.5			6.2						
1030			6.9		6.4	6.0	6.1	6.3						
1200	6.7			6.8	6.3	6.1	6.2							6.0
1330	6.8	7.0		6.7	6.2		6.2		6.4					5.9
1500	6.9	6.9			6.1		6.3		6.3					
1630	7.0				6.0				6.2					
1800					6.0			6.3	6.1					
1930			6.9		5.9			6.4	6.0					
2100			6.8		6.0				5.8					
2230							6.3		5.5					
2400	7.0	6.9	6.8	6.7	6.0	6.1	6.2	6.4	5.3	6.0	6.0	6.0	6.0	5.9

LAKE MICHIGAN, STATION 38, 22 m. continued.

DATE TIME	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29
0130	5.9	5.8	5.7	5.7	5.6	5.5	5.4	5.2	5.0	5.0	5.0	4.9	4.9	4.8
0300														
0430	5.9						5.4	5.2						
0600	5.8	5.8					5.3	5.1				4.9		
0730		5.7										5.0		
0900														4.8
1030														4.7
1200				5.7		5.5								
1330				5.6	5.6	5.4						5.0		
1500					5.5							4.9		
1630							5.3							
1800							5.2							4.7
1930														4.6
2100														
2230														
2400	5.8	5.7	5.7	5.6	5.5	5.4	5.2	5.1	5.0	5.0	5.0	4.9	4.9	4.6
DATE TIME	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12
0130	4.6	4.4	4.3	4.3	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.1	4.2
0300				4.3										
0430	4.6			4.2										
0600	4.5													
0730														
0900														
1030														
1200														
1330														
1500														
1630	4.5	4.4											4.1	
1800	4.4	4.3											4.2	
1930														
2100														
2230														
2400	4.4	4.3	4.3	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
DATE TIME	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26
0130	4.2	4.0	4.2	4.6	4.1	4.1	4.0	4.0	4.1	4.0	4.0	4.0	4.0	3.9
0300	4.2		4.2						4.1					
0430	4.1		4.1	4.6					4.0					
0600	4.1	4.0	4.0	4.5	4.1									
0730	4.0	4.1	4.0	4.5	4.0	4.1								
0900	3.9		4.1	4.4		4.0								
1030	3.8		4.1	4.4										
1200	3.7		4.2	4.3										
1330	3.6		4.3	4.2										
1500		4.1	4.4	4.2				4.0						
1630		4.2	4.4	4.1				4.1						
1800			4.5	4.2	4.0									
1930			4.6		4.1									
2100	3.6												4.0	
2230	3.7												3.9	
2400	3.8	4.2	4.6	4.2	4.1	4.0	4.0	4.1	4.0	4.0	4.0	4.0	3.9	3.9

LAKE MICHIGAN, STATION 38, 22 m. continued.

DATE	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
TIME														
0130	3.9	3.9	3.9	3.9	3.7	3.9	3.8	2.9	3.1	3.1	3.2	3.1	3.1	3.2
0300									3.1	3.0				
0430					3.7				3.2	2.9				
0600				3.9	3.8			2.9						
0730				3.8	3.8		3.8	3.0						
0900					3.9		3.7							
1030														
1200														
1330										2.9				
1500										3.0				
1630				3.8			3.7							
1800				3.7			3.6						3.1	
1930							3.5						3.2	
2100							3.3			3.0				
2230							3.0			3.1				
2400	3.9	3.9	3.9	3.7	3.9	3.9	2.9	3.0	3.2	3.2	3.2	3.1	3.2	3.2
DATE	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23
TIME														
0130	3.2	3.2	3.1	2.8	2.9	2.9	2.8	2.5	2.4	2.3	2.3	2.2	2.3	2.8
0300														2.8
0430			3.1											2.9
0600			3.0				2.8						2.3	
0730							2.7						2.4	
0900													2.4	
1030				2.8									2.5	
1200			3.0	2.7			2.7		2.4				2.5	
1330			2.9				2.6		2.3				2.6	
1500				2.7										
1630		3.2		2.8									2.6	2.9
1800		3.1		2.8									2.7	2.8
1930				2.9			2.6				2.3		2.7	2.7
2100						2.9	2.5	2.5			2.2	2.2	2.8	2.6
2230						2.8	2.4					2.3		
2400	3.2	3.1	2.9	2.9	2.9	2.8	2.5	2.4	2.3	2.3	2.2	2.3	2.8	2.6
DATE	2-24	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
TIME														
0130	2.6	2.7	2.7	2.5	2.5	2.7	2.6	2.7	2.7	2.7	2.7	2.5	2.5	2.7
0300														
0430														
0600													2.5	
0730	2.6	2.7					2.6				2.7		2.6	
0900	2.7	2.8	2.7				2.5				2.6			
1030			2.6											
1200					2.5	2.7								2.7
1330					2.6	2.6							2.6	2.6
1500							2.5						2.7	
1630	2.7	2.8					2.6							
1800	2.6	2.7												
1930											2.6			
2100			2.6		2.6		2.6				2.5			
2230	2.6		2.5		2.7		2.7							
2400	2.7	2.7	2.5	2.5	2.7	2.6	2.7	2.7	2.7	2.7	2.5	2.5	2.7	2.6

LAKE MICHIGAN, STATION 38, 22 m. continued.

DATE	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22
TIME														
0130	2.6	2.6	2.6	2.4	2.3	2.3	2.3	2.4	2.2	2.2	2.0	2.0	2.0	2.0
0300		2.6						2.4						
0430		2.5						2.3		2.2				
0600				2.4						2.1				
0730			2.6	2.3		2.3				2.1				
0900			2.5			2.4				2.0				
1030	2.6	2.5				2.5			2.2					
1200	2.5	2.6			2.3				2.3					
1330					2.4		2.3							
1500						2.5	2.4							2.0
1630					2.4	2.4	2.4							1.9
1800	2.5				2.5		2.5							
1930	2.6				2.5									
2100			2.5		2.4	2.4		2.3	2.3					
2230			2.4		2.3	2.3		2.2	2.2					
2400	2.6	2.6	2.4	2.3	2.3	2.3	2.5	2.2	2.2	2.0	2.0	2.0	2.0	1.9
DATE	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5
TIME														
0130	1.9	2.0	2.1	2.1	2.1	2.2	2.0	2.1	1.9	2.0	2.2	2.3	2.4	2.0
0300					2.1			2.0	2.0		2.3			
0430					2.2			1.9	2.1		2.4	2.3	2.4	2.0
0600					2.2		2.0	1.9	2.2			2.4	2.3	1.9
0730					2.3		2.1	1.8	2.2					1.8
0900						2.2	2.2		2.3	2.0		2.4		1.7
1030						2.1	2.4		2.4	1.9		2.5		
1200	1.9					2.1			2.5					
1330	2.0					2.0			2.7	1.9				
1500		2.0		2.1			2.4		2.8	1.8		2.5		
1630		2.1		2.0			2.3		2.9	1.7	2.4	2.6		
1800							2.2	1.8	2.9	1.7	2.3		2.3	
1930								1.9	2.7	1.8			2.2	
2100				2.0	2.3				2.5	1.9		2.6	2.1	1.7
2230				2.1	2.2				2.3	2.0		2.5	2.1	1.6
2400	2.0	2.1	2.1	2.1	2.2	2.0	2.2	1.9	2.1	2.1	2.3	2.4	2.0	1.6
DATE	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19
TIME														
0130	1.6	1.6	2.2	2.1	1.9	2.2	2.4	2.4	2.3	2.3	2.3	2.3	2.2	2.1
0300		1.6							2.4					
0430		1.7				2.2			2.4					2.1
0600	1.6	1.7			1.9	2.3			2.5				2.2	2.2
0730	1.5	1.8			2.0			2.4					2.1	
0900	1.5	1.9						2.3						
1030	1.6	1.9						2.1	2.5					
1200		2.0							2.4					
1330		2.0		2.1				2.1	2.4					
1500		2.1		2.0				2.2	2.3				2.3	
1630		2.1		1.9	2.0			2.3	2.4		2.3	2.2		
1800		2.2			2.1				2.4		2.2			
1930					2.2				2.5					
2100			2.2						2.5					
2230			2.1						2.4		2.2			
2400	1.6	2.2	2.1	1.9	2.2	2.3	2.4	2.3	2.3	2.3	2.3	2.2	2.1	2.2

LAKE MICHIGAN, STATION 38, 22 m. continued.

DATE	4-20	4-21	4-22	4-23	4-24	4-25	4-26	4-27	4-28	4-29	4-30	5-1	5-2	5-3
TIME														
0130	2.1	2.1	2.2	2.2	2.4	2.4	2.3	2.3	2.4	2.4	2.4	2.3	2.3	2.3
0300											2.3			
0430														
0600				2.2										
0730				2.3										
0900					2.4									2.3
1030					2.3	2.4								2.2
1200						2.3								2.1
1330														2.0
1500														1.9
1630														1.7
1800														End
1930				2.3	2.3									Record
2100				2.4	2.4									
2230														
2400	2.1	2.1	2.2	2.4	2.4	2.3	2.3	2.3	2.4	2.4	2.3	2.3	2.3	

LAKE MICHIGAN - STATION 38. Depth 30 m.

Start 2 December 1963, 1200 CST; end 3 May 1964, 1635 CST.

Instrument serial no. 274, film record 20,174. Initial cal. -0.2°C; final cal.+0.3°C.

DATE	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15
TIME														
0130		6.5	6.9	6.7	6.6	6.4	6.4	6.4	6.0	6.2	6.2	6.2	6.2	6.3
0300														
0430		6.5												
0600		6.6					6.4							
0730		6.6					6.3							
0900		6.8					6.3	6.0		6.2	6.2			
1030		7.0					6.2	6.1		6.1	6.3			
1200	6.3	7.0	6.9	6.7	6.6									
1330	6.3	6.9	6.8	6.6	6.5							6.3		
1500	6.4		6.8		6.5							6.2		
1630	6.4		6.7		6.4									
1800	6.5										6.1			
1930											6.2			
2100							6.2	6.1					6.2	
2230							6.1	6.2					6.3	
2400	6.5	6.9	6.7	6.6	6.4	6.4	6.4	6.1	6.2	6.2	6.2	6.2	6.3	6.3

LAKE MICHIGAN, STATION 38, 30 m. continued.

DATE TIME	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29
0130	6.3	5.4	6.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.7	5.7	5.5	5.4
0300		5.3								5.9			5.5	
0430		5.3								5.8			5.4	
0600		5.4												
0730		5.5												
0900		5.6												5.4
1030		5.7												5.5
1200		5.8										5.7		
1330		5.9										5.6		
1500	6.3	6.0												
1630	6.2	6.1												
1800	6.2									5.8		5.6		
1930	5.8									5.7		5.5		
2100	5.6		6.0											
2230	5.6		5.9											
2400	5.5	6.1	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.7	5.7	5.5	5.4	5.5

DATE TIME	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12
0130	5.5	5.4	5.4	5.4	5.3	5.3	5.1	5.1	5.1	5.0	5.0	5.0	4.9	4.9
0300														
0430														
0600				5.4		5.3								
0730				5.3		5.2								
0900														
1030														
1200										5.1				
1330	5.5									5.0				
1500	5.4													
1630														
1800														
1930														
2100												5.0		
2230												4.9		
2400	5.4	5.4	5.4	5.3	5.3	5.2	5.1	5.1	5.0	5.0	5.0	4.9	4.9	4.9

DATE TIME	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26
0130	4.9	4.8	4.8	4.7	4.6	4.5	4.4	4.3	4.3	4.3	4.2	4.2	4.2	4.2
0300			4.8											
0430			4.7							4.2				
0600						4.5	4.4							
0730	4.9					4.4	4.3							
0900	4.8													
1030														
1200					4.6									
1330					4.5									
1500														
1630														
1800														
1930														
2100				4.7										
2230				4.6										
2400	4.8	4.8	4.7	4.6	4.5	4.4	4.3	4.3	4.3	4.2	4.2	4.2	4.2	4.2

LAKE MICHIGAN, STATION 38, 30 m. continued

DATE TIME	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
0130	4.2	4.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9
0300														
0430														
0600														
0730														
0900		4.2												
1030		4.1												
1200														
1330														
1500														
1630														
1800														
1930														
2100		4.1												
2230		4.0												
2400	4.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9
DATE TIME	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23
0130	3.9	3.9	3.9	3.7	3.1	3.8	3.8	4.0	4.0	4.0	3.5	3.6	3.5	3.6
0300				3.6	3.2		3.8							
0430				3.5	3.3		3.7							
0600				3.4	3.4		3.6			4.0			3.5	
0730				3.3			3.5			3.9			3.6	
0900				3.2						3.9				
1030				3.1			3.5			3.8				
1200							3.6			3.7				
1330					3.4		3.7			3.6				
1500					3.5		3.7			3.5				
1630					3.6		3.8							
1800							3.8							
1930					3.6		3.9					3.6		
2100			3.9	3.1	3.8		3.9				3.5	3.5		
2230			3.8	3.0			4.0				3.6			
2400	3.9	3.9	3.8	3.0	3.8	3.8	4.0	4.0	4.0	3.5	3.6	3.5	3.6	3.6
DATE TIME	2-24	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
0130	3.6	3.6	3.6	3.5	3.5	3.5	3.4	3.5	3.4	3.5	3.5	3.4	3.4	3.4
0300														
0430														
0600														
0730														3.4
0900										3.4				3.5
1030										3.5				
1200														
1330						3.5		3.5						
1500						3.4		3.4			3.5			
1630											3.4			
1800														
1930														
2100														
2230														
2400	3.6	3.6	3.6	3.5	3.5	3.4	3.4	3.4	3.5	3.5	3.4	3.4	3.4	3.5

LAKE MICHIGAN, STATION 38, 30 m. continued.

DATE	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22
TIME														
0130	3.5	3.5	3.5	3.4	3.4	3.3	3.3	3.4	3.4	3.4	3.4	2.8	2.8	2.9
0430														
0600					3.4		3.3				3.4		2.8	
0730			3.5		3.3		3.4				3.3		2.9	
0900			3.4								3.2			
1030											3.1			
1200											3.0			
1330											2.9			
1500											2.8			
1630											2.7			
1800														
1930														
2100														
2230														
2400	3.5	3.5	3.4	3.4	3.3	3.3	3.4	3.4	3.4	3.4	2.7	2.8	2.9	2.9
DATE	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5
TIME														
0130	2.9	2.5	2.8	2.8	2.8	2.7	2.7	2.6	2.6	2.6	2.7	2.7	2.7	2.5
0300	2.8	2.5			2.8									
0430	2.7	2.6			2.7									
0600	2.7													
0730	2.6													
0900	2.5	2.6												
1030		2.7					2.7							
1200							2.6							
1330														
1500		2.7											2.7	
1630		2.8											2.6	
1800														
1930														
2100										2.6				
2230										2.7				
2400	2.5	2.8	2.8	2.8	2.7	2.7	2.6	2.6	2.6	2.7	2.7	2.7	2.6	2.5
DATE	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19
TIME														
0130	2.4	2.3	2.3	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.0	1.9	1.9	1.9
0300											2.0			
0430											1.9			
0600														
0730														
0900														
1030										2.1				
1200					2.3					2.0				
1330					2.2									
1500														
1630														
1800														
1930														
2100						2.2								
2230						2.1								
2400	2.4	2.3	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.0	1.9	1.9	1.9	1.9

LAKE MICHIGAN, STATION 38, 30 m. continued.

DATE	4-20	4-21	4-22	4-23	4-24	4-25	4-26	4-27	4-28	4-29	4-30	5-1	5-2	5-3
TIME														
0130	1.8	1.8	1.9	2.2	2.2	1.9	1.9	2.0	2.0	1.9	1.9	1.9	1.9	2.0
0300														
0430														
0600														
0730						1.9	1.9							
0900			1.9			1.8	2.0							
1030			2.0											
1200									2.0					
1330		1.8	2.0		2.2				1.9					
1500		1.9	2.1		2.1								1.9	
1630						1.8							2.0	
1800			2.1		2.1	1.9								
1930			2.2		2.0									
2100					1.9									
2230														
2400	1.8	1.9	2.2	2.2	1.9	1.9	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.0
DATE	5-4	5-5	5-6	5-7	5-8	5-9	5-10	5-11	5-12	5-13	5-14	5-15	5-16	5-17
TIME														
0130	2.0	2.0												
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	2.0	2.0	DATA ENDS.											

LAKE MICHIGAN - STATION 38. Depth 60 m.

Start 2 December 1963, 1200 CST; end 3 May 1964, 1635 CST.

Instrument serial no. 311, film record 20,175. Initial cal. 0°C; final cal. -0.5°C.

DATE	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15
TIME														
0130		7.0	7.0	6.9	6.4	6.1	6.6	6.8	6.1	6.1	6.1	6.1	5.9	5.7
0300					6.2	5.8			5.8					
0430					6.1	5.2	6.6		5.8			6.1		
0600		7.0		6.9		4.8	6.1	6.8	6.0			6.0		
0730		6.9		6.1		4.7		6.7						
0900				5.5		4.7	6.1	6.1						
1030				5.4		4.9	6.2	6.0						
1200	6.8			6.2	6.1	5.9	6.9	5.9					5.9	
1330	6.8		7.0	6.4	6.0	6.2						6.0	5.8	
1500	6.9		6.9	6.6	5.8	6.7		5.9				5.9		
1630				6.8			6.9	5.8						
1800		6.9		6.7	5.8		6.1	5.8	6.0				5.8	
1930	6.9	7.0		6.6	5.9	6.7	6.3	5.9	6.1				5.7	
2100	7.0			6.5	6.0	6.1	5.4	6.1						
2230					6.1	6.2	5.6							
2400	7.0	7.0	6.9	6.5	6.1	6.4	6.7	6.1	6.1	6.1	6.1	5.9	5.7	5.7

DATE	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29
TIME														
0130	5.7	5.7	5.7	5.7	5.6	5.4	5.3	5.3	5.2	5.0	5.0	5.0	5.0	5.0
0300														
0430				5.7	5.6				5.2					
0600				5.6	5.5			5.3	5.1					
0730								5.2						
0900														
1030														
1200									5.1					
1330									5.0					
1500						5.4								
1630						5.3								
1800					5.5									
1930					5.4									
2100														
2230														
2400	5.7	5.7	5.7	5.6	5.4	5.3	5.3	5.2	5.0	5.0	5.0	5.0	5.0	5.0

DATE	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12
TIME														
0130	5.1	5.0	5.0	5.0	5.0	5.0	4.9	5.0	4.2	4.2	4.5	4.2	4.3	4.3
0300								4.9	4.2	4.3	4.5			4.3
0430									4.3	4.3	4.4			4.4
0600									4.4	4.4		4.2		4.4
0730						5.0		4.9		4.5	4.4	4.3		4.3
0900						4.9		4.8		4.6	4.3		4.3	
1030								4.3		4.8	4.2		4.4	
1200								4.1						
1330												4.3		
1500	5.1											4.2		
1630	5.0									4.8			4.4	
1800									4.4	4.7			4.3	
1930									4.3	4.6				
2100								4.1	4.2	4.5				
2230								4.2						
2400	5.0	5.0	5.0	5.0	5.0	4.9	4.9	4.2	4.2	4.5	4.2	4.2	4.3	4.3

LAKE MICHIGAN, STATION 38, 60 m. continued.

DATE	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26
TIME														
0130	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.2	4.2	4.1	3.4	3.7	3.4
0300												3.4	3.6	
0430												3.6	3.4	
0600												3.8	3.3	
0730											4.1			
0900								4.3			3.9			
1030								4.2			3.4			
1200											3.3		3.3	
1330											3.3		3.4	
1500											3.5			
1630														
1800														
1930											3.5			
2100										4.2	3.4	3.8		
2230										4.1	3.5	3.7		
2400	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.2	4.2	4.1	3.5	3.7	3.4	3.4
DATE	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
TIME														
0130	3.5	3.5	3.5	3.7	3.6	3.5	3.4	3.3	3.2	3.2	3.1	3.2	2.9	3.1
0300										3.1		3.2		3.1
0430												3.1	2.9	3.2
0600			3.5								3.1		3.0	
0730			3.6								3.2	3.1		
0900								3.3			3.3	3.0		
1030				3.7				3.2			3.4			
1200				3.6							3.5			
1330							3.4				3.3			
1500					3.6						3.2			
1630			3.6		3.5	3.5						3.0		
1800			3.7			3.4					3.2	2.9		
1930											3.3		3.0	
2100											3.2		3.1	
2230														
2400	3.5	3.5	3.7	3.6	3.5	3.4	3.3	3.2	3.2	3.1	3.2	2.9	3.1	3.2
DATE	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23
TIME														
0130	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.1	3.1	3.0	3.0
0300														
0430														
0600				3.2		3.2								
0730				3.1		3.3						3.1		
0900												3.0		
1030													3.0	
1200						3.3							3.1	
1330						3.2								
1500			3.2	3.1										
1630			3.1	3.2										
1800													3.1	
1930													3.0	
2100			3.1											
2230			3.2						3.2					
2400	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.1	3.0	3.0	3.0

LAKE MICHIGAN, STATION 38, 60 m. continued.

DATE TIME	2-24	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
0130	3.1	3.0	3.1	3.1	3.1	3.1	2.9	2.8	2.7	2.6	2.6	2.7	2.7	2.7
0300						3.0								
0430														
0600		3.0		3.1		3.0								
0730		3.1		3.2		3.1								
0900														
1030						3.1		2.8						
1200						3.0		2.7						
1330							2.9							
1500							2.8							
1630	3.1					3.0								
1800	3.0			3.2		2.9					2.6			
1930				3.1							2.7			
2100									2.7					
2230									2.6					
2400	3.0	3.1	3.1	3.1	3.1	2.9	2.8	2.7	2.6	2.6	2.7	2.7	2.7	2.7

DATE TIME	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22
0130	2.7	2.5	3.2	2.9	3.0	3.2	2.8	2.5	2.9	2.9	2.6	2.7	2.8	2.8
0300			3.3				2.7							
0430	2.7				3.0		2.6							2.8
0600	2.8			2.9	3.1	3.2								2.9
0730	2.9			3.0	3.2	3.1				2.9	2.6			
0900				3.1	3.3					2.8	2.7			
1030			3.3		3.2		2.6							
1200			3.2	3.1			2.5	2.5				2.7		
1330				3.0				2.6				2.8		
1500	2.9		3.2					2.7		2.8				
1630	2.8		3.1					2.9		2.7				
1800	2.7	2.5				3.1		3.0		2.7				2.9
1930	2.6	2.6				2.9		2.9		2.6				3.0
2100	2.5	2.9	3.1			2.8								
2230		3.1	3.0											
2400	2.5	3.2	3.0	3.0	3.2	2.8	2.5	2.9	2.9	2.6	2.7	2.8	2.8	3.0
DATE TIME	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5
0130	3.2	3.2	3.2	3.1	3.2	3.2	3.2	3.1	3.0	3.1	3.1	3.0	3.0	3.0
0300	3.3													
0430														
0600				3.1				3.1						
0730				3.2				3.0						
0900							3.1		3.0					
1030									3.1					
1200														
1330	3.3										3.1			
1500	3.2										3.0			
1630	3.1													
1800			3.2											
1930			3.1											
2100	3.1													
2230	3.2													
2400	3.2	3.2	3.1	3.2	3.2	3.2	3.1	3.0	3.1	3.1	3.0	3.0	3.0	3.0

LAKE MICHIGAN, STATION 38, 60 m. continued.

DATE	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19
TIME														
0130	3.0	3.0	3.0	3.0	3.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
0300														
0430														
0600														
0730														
0900														
1030														
1330					3.0									
1500					3.1									
1630														
1800														
1930														
2100														
2230														
2400	3.0	3.0	3.0	3.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
DATE	4-20	4-21	4-22	4-23	4-24	4-25	4-26	4-27	4-28	4-29	4-30	5-1	5-2	5-3
TIME														
0130	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3
0300														
0430														
0600														
0730														
0900										3.2				
1030										3.3				
1200														
1330														
1500														
1630														
1800														3.3
1930														Data
2100														Ends.
2230														
2400	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	

LAKE MICHIGAN - STATION 39, Depth 90 m.

Start 2 December 1963, 1200 CST; end 3 May 1964, 1635 CST.

Instrument serial no. 129, film record 20,176. Initial cal. Indet., final cal. 0°C.

DATE	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15
TIME														
0130		7.4	7.7	6.4	7.6	6.9	6.8	6.9	7.9	7.0	7.1	6.9	6.3	7.0
0300		7.5	7.7		7.6	6.8	6.7	6.9		7.9	7.0	6.7		6.3
0430		7.4	7.8		8.0	6.3		6.8		7.3		6.6		
0600		7.5	7.8		8.1	6.2		6.7	7.9	7.3	7.0	6.6	6.3	6.3
0730			7.7		7.0		6.7	6.5	8.0	7.1	6.9	6.3	6.4	6.6
0900		7.5	7.6		6.5	6.2	6.8	6.9	7.9	7.2		6.2	6.3	6.8
1030		7.6	7.5		6.9	6.3	7.0	6.8	7.8	7.0			6.3	7.0
1200		7.9	7.4		6.5	6.4	6.9	7.3	7.3	6.9			6.4	6.8
1330	7.0	7.7	7.3	6.4		6.5	6.4	7.6	7.2	6.9			6.6	6.3
1500	7.6	7.6	7.5	6.5			6.3	7.6	7.1	7.0			6.7	7.1
1630	7.2		7.5	7.2	6.5	6.5		7.9	7.2	7.5	6.9	6.2	6.8	7.4
1800	7.1	7.6	7.9	8.0	6.6	6.6		8.0	7.6	8.0	6.8	6.4	7.0	7.0
1930	7.3	7.7	7.2	7.0	6.8	6.7		7.9	7.7	8.0	6.9	6.6	6.3	7.1
2100	7.3	7.8	6.7	7.2	6.8	6.7	6.3		7.1	7.0	6.8	6.5	6.6	7.3
2230	7.4		6.5	7.1	7.2	6.8	6.4		7.0	6.8	6.9	6.4	6.9	7.8
2400	7.4	7.8	6.5	7.1	6.9	6.9	7.0	7.9	7.9	7.2	6.9	6.4	7.0	8.0

DATE	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29
TIME														
0130	8.0	7.0	6.5	6.7	6.6	6.5	6.4	6.4	6.3	6.1	6.1	6.1	6.1	6.0
0300	7.9	7.2	6.6	6.3	6.6	6.4		6.3			6.0	6.0		
0430	7.1	7.6	6.7	6.5	6.5								6.1	
0600	6.5	8.0	7.3	6.4					6.3	6.1			6.0	
0730	6.4		6.6	6.4					6.2	6.0				
0900	6.5	8.0		6.5						6.0				
1030	7.6	7.7		6.5						6.1				
1200	7.7	7.3	6.6	6.6										
1330	7.5	7.1	6.5	6.6				6.2						
1500	7.7	7.5	6.6	6.4		6.4		6.1	6.1		6.0			
1630	8.0	8.0	6.4	6.6		6.3			6.2		6.1			
1800			6.7			6.4					6.0			
1930		8.0	6.8								6.1			
2100	8.0	7.4	6.7											
2230	7.0	6.6	6.8											
2400	6.7	6.6	6.7	6.6	6.5	6.4	6.4	6.3	6.1	6.2	6.1	6.1	6.0	6.0

DATE	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12
TIME														
0130	6.0	5.9	5.9	6.0	6.0	6.0	6.0	7.0	6.7	6.8	6.7	6.6	6.6	6.7
0300	6.0							7.0	6.8	6.9	6.5			
0430	5.9					6.0	6.0	6.9	6.9	7.0	6.6			6.7
0600						5.8	5.9	6.8	7.0	6.9	6.5			6.6
0730						5.9		6.7		7.0	6.5			6.5
0900						5.8		6.6		7.1	6.4			
1030						5.7		6.4			6.4			
1200								6.3			6.5			
1330								6.2					6.6	6.5
1500								6.1		7.1	6.5			6.6
1630								6.1		7.0	6.4			
1800					6.0		5.9	6.3	7.0	6.9	6.4			6.6
1930					6.1	5.7	6.0	6.5	6.8		6.5		6.7	6.7
2100						5.9		6.6	6.6				6.8	
2230									6.4		6.5		6.8	
2400	5.9	5.9	5.9	6.0	6.1	5.9	6.0	6.6	6.6	6.9	6.6	6.6	6.7	6.7

LAKE MICHIGAN, STATION 38, 90 m. continued.

DATE	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-21	1-23	1-24	1-25	1-26
TIME														
0130	6.7	6.7	6.7	6.5	6.6	6.5	6.5	6.4	6.3	6.6	6.3	5.7	6.0	5.9
0300					6.6			6.4	6.4	6.6				
0430					6.5			6.3	6.5	6.5	6.3	5.7		5.9
0600			6.7						6.5		6.2	5.8		6.0
0730			6.6	6.5					6.6		6.1	5.9		5.9
0900				6.6						6.5	6.1	6.0		
1030										6.4	5.9			
1200								6.3		6.4	5.7			
1330								6.2		6.3			6.0	
1500											5.7		5.9	
1630											5.8		5.8	
1800							6.5				5.9		5.9	
1930			6.6				6.4	6.2			5.7			
2100			6.5					6.3					5.9	
2230													6.0	
2400	6.7	6.7	6.5	6.6	6.5	6.5	6.4	6.3	6.6	6.3	5.7	6.0	6.0	5.9

DATE	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
TIME														
0130	5.9	5.8	5.9	6.0	6.0	6.0	5.7	5.5	5.5	5.5	5.6	5.7	5.1	5.6
0300				5.9		5.9				5.5		5.7	5.1	
0430				6.0					5.5	5.4	5.6	5.6	5.2	5.6
0600		5.8		5.9					5.6		5.7	5.4	5.2	5.7
0730		5.9					5.7				5.8		5.3	
0900						5.9	5.6				5.9	5.4	5.3	
1030						5.8			5.6	5.4	6.0	5.3	5.4	
1200									5.5	5.5				
1330								5.5	5.5			5.3		
1500	5.9				5.8			5.4	5.6			5.4		
1630	5.8				5.7	5.6			5.5				5.4	
1800				5.9		5.7			5.4	5.5		5.4	5.5	
1930			5.9	6.0		5.7	5.6		5.3	5.6		5.3		5.7
2100			6.0			5.7	5.6		5.4			5.3	5.5	5.6
2230						5.6	5.6	5.4	5.5		6.0	5.1	5.6	
2400	5.8	5.9	6.0	6.0	6.0	5.6	5.5	5.5	5.5	5.6	5.8	5.1	5.6	5.6

DATE	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23
TIME														
0130	5.6	5.7	5.6	5.5	5.6	5.7	5.7	5.6	5.5	5.3	5.3	5.5	5.4	5.5
0300			5.4		5.6	5.8	5.6	5.6		5.2				5.4
0430			5.5	5.5	5.7		5.5	5.5		5.1				
0600				5.6					5.5			5.5		5.4
0730	5.6								5.4	5.1		5.4		5.5
0900	5.7						5.5			5.0				5.5
1030			5.5			5.8	5.6			5.0				5.4
1200			5.4			5.7				5.1			5.4	5.4
1330			5.5							5.2			5.5	5.5
1500				5.6										
1630				5.5	5.7									
1800				5.6	5.6				5.4	5.2	5.3			5.5
1930		5.7							5.3	5.3	5.4			5.4
2100		5.6			5.6									
2230					5.7									
2400	5.7	5.6	5.5	5.6	5.7	5.7	5.6	5.5	5.3	5.3	5.4	5.4	5.5	5.4

LAKE MICHIGAN, STATION 38, 90 m. continued.

DATE	2-24	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
TIME														
0130	5.4	5.2	5.3	5.3	5.5	5.2	5.3	5.4	5.1	4.7	4.7	5.1	5.3	5.1
0300	5.3					5.1		5.3		4.8		5.1		
0430						5.1	5.3	5.0	5.1	4.9		5.2		5.1
0600	5.3	5.2				5.3	5.4		5.0		4.7		5.3	5.0
0730	5.2	5.3				5.4	5.5				4.8	5.2	5.4	
0900		5.4		5.3		5.5				4.9	4.9	5.3		
1030		5.4		5.4		5.5				5.0	5.0			
1200		5.5		5.4		5.4								
1330			5.5	5.5		5.4	5.5		5.0				5.4	
1500		5.5				5.1	5.4		4.9				5.3	
1630		5.4			5.5	5.2		5.0	4.8	5.0				5.0
1800		5.3			5.4	5.4	5.4	5.1	4.7	4.9				4.9
1930		5.2			5.3	5.2	5.3			4.9		5.3		
2100		5.3		5.5		5.3				4.8		5.4		4.9
2230				5.4		5.2				4.7				4.8
2400	5.2	5.3	5.3	5.5	5.3	5.2	5.3	5.1	4.7	4.7	5.0	5.4	5.3	4.8

DATE	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22
TIME														
0130	4.8	4.9	5.5	5.0	5.3	5.4	5.6	4.6	5.5	5.3	5.1	5.1	5.2	5.2
0300	4.9	4.7	5.6	5.1	5.5		5.6	4.7	5.4	5.3	5.1			
0430	5.0	4.5		5.2	5.6		5.2	4.7	5.4	5.4	5.0			
0600	5.3	4.4		5.3			5.0	4.8						
0730				5.4			4.9	4.9		5.4				
0900			5.6				4.9	5.0		5.5				
1030		4.4	5.5				5.1	5.1		5.4		5.1		
1200		4.3	5.4	5.4			4.9	5.3		5.2		5.2		
1330		4.3	5.3	5.3	5.6	5.4	4.8	5.4		5.0				
1500	5.3	4.4			5.4	5.5	4.7			5.2				
1630	5.2	4.3			5.6	5.5			5.4	5.2	5.0			5.2
1800	5.1	4.3	5.3		5.6		4.7		5.5	5.0	5.1	5.2		5.3
1930	5.0	4.7	5.1		5.5	5.5	4.6		5.5		5.2	5.1		
2100	4.9	4.8	5.0		5.4	5.4	4.7		5.4			5.2		5.3
2230	5.0	5.1				5.4	4.6		5.4	5.0	5.2			5.4
2400	5.0	5.4	5.0	5.3	5.4	5.6	4.6	5.4	5.5	5.1	5.1	5.2	5.2	5.5

DATE	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5
TIME														
0130	5.4	5.5	5.3	5.1	5.3	5.3	5.2	5.1	5.2	5.2	5.2	5.1	5.2	5.1
0300	5.4	5.5	5.3				5.2				5.1	5.0		5.0
0430	5.5	5.6	5.4		5.3		5.0							
0600		5.6	5.4		5.2									
0730		5.5	5.2											
0900			5.2				5.0							
1030		5.5	5.3				5.1		5.2					
1200		5.3	5.3				5.1		5.3	5.2		5.0		
1330	5.5	5.2	5.2				5.0		5.4	5.3		5.1		
1500	5.4			5.1			5.0		5.3					
1630		5.2		5.2			5.1					5.2		
1800		5.3		5.3								5.2		
1930	5.4	5.3						5.1		5.3		5.1		
2100	5.3	5.4	5.2			5.3		5.2		5.2				
2230	5.4	5.3	5.1		5.2	5.2		5.3		5.2				
2400	5.5	5.3	5.1	5.3	5.3	5.2	5.1	5.3	5.3	5.2	5.1	5.1	5.2	5.0

LAKE MICHIGAN, STATION 38, 90 m. continued.

DATE TIME	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19
0130	5.0	5.1	5.2	5.0	5.0	5.0								
0300														
0430														
0600			5.2											
0730			5.1											
0900														
1030	5.0													
1200	5.1		5.1											
1330			5.0											
1500														
1630						5.0								
1800						4.7								
1930						4.2								
2100						3.9								
2230						3.1								
2400	5.1	5.1	5.0	5.0	5.0	2.8	Record short. Ran out of tape.							

LAKE MICHIGAN - STATION 38, Depth 120 m.

Start 2 December 1963, 1200 CST; end 3 May 1964, 1635CST.

Instrument serial no. 286, Film record 20,177. Initial cal. -1.5°C; final cal. +1.5°C.

DATE TIME	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15
0130		5.3	5.8	5.1	5.1	5.0	5.1	5.0	6.2	5.1	5.2	4.9	5.0	5.0
0300				5.1										
0430		5.3		5.0										
0600		5.5	5.8		5.1						5.2			
0730		5.6	5.7		5.0						5.1			
0900		5.6									5.0	4.9		
1030		5.7					5.1		6.2			4.8		
1200	5.0	5.8	5.7			5.0	5.0	5.0	6.1			4.9		
1330			5.6			5.1			6.1			5.0		
1500			5.5						5.2	5.8			5.0	
1630			5.3						5.5	5.5			4.9	
1800			5.1				5.0	5.8	5.2					
1930							4.9	5.8	5.1		5.0			
2100								6.0			4.9			
2230	5.0							6.2						
2400	5.3	5.8	5.1	5.0	5.0	5.1	4.9	6.2	5.1	5.1	4.9	5.0	4.9	5.0

LAKE MICHIGAN, STATION 38, 120 m. continued.

DATE	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29
TIME														
0130	5.0	5.0	5.0	5.0	6.0	6.0	5.8	5.3	5.9	5.7	5.7	5.6	5.7	5.8
0300	5.2						5.9			5.7		5.7		
0430	5.0							5.3		5.6				
0600		5.0					5.4	5.9	5.6					5.8
0730		5.2					5.9	5.6	5.8	5.5				5.7
0900		5.2	5.0	5.0			5.8	5.8	5.8	5.5				
1030		5.1	5.1	5.2			5.8	5.9	5.7	5.4				
1200		5.0	5.2	5.1			5.6	5.8		5.4			5.7	
1330		4.9	5.1	5.8			5.3	5.5	5.7	5.5			5.8	
1500			5.2	5.6			5.2	5.2	5.6	5.6				
1630			5.3	5.5			5.1	5.3	5.5	5.7				
1800			5.5	5.8				5.7	5.7		5.7			
1930		4.9	5.3	6.0			5.1	5.8			5.6			
2100		4.8	5.2	5.8			5.2	5.8			5.6			
2230			5.1	6.0			5.3	5.9			5.5			
2400	5.0	4.8	5.0	6.0	6.0	6.0	5.3	5.9	5.7	5.7	5.5	5.7	5.8	5.7
DATE	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12
TIME														
0130	5.7	5.6	5.3	5.3	5.4									
0300														
0430														
0600		5.6												
0730		5.5												
0900	5.7													
1030	5.6													
1200					5.4									
1330					5.5									
1500			5.3											
1630			5.2											
1800														
1930				5.3	5.5									
2100		5.5		5.4	End of Record.									
2230		5.4			Transport failure.									
2400	5.6	5.3	5.2	5.4										

LAKE MICHIGAN - STATION 38, Depth 150 m.

Start 2 December 1963, 1200 CST; end 3 May 1964, 1635 CST.

Instrument serial no. 282, Film record 20,178. Initial cal. Indet., final cal. 0°C.

DATE	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15
TIME														
0130		3.7	4.5	3.7	3.8	3.8	3.7	3.7	4.5	3.7	3.7	3.7	3.5	3.5
0300			4.5	3.6		3.8			4.4	3.7				
0430			4.4			3.7			4.3	3.6				
0600		3.7	4.3						4.2					
0730		3.8							4.2					
0900		4.1	4.3			3.7			4.3			3.7		
1030		4.2	4.1		3.8	3.8			4.3			3.6		
1200		4.3	4.0		3.7	3.7			4.4					
1330			4.0						4.0			3.6		
1500			3.9			3.7			3.9			3.5		
1630		4.3	3.8	3.	3.7	3.8			3.8					
1800		4.2	3.8	3.7	3.8			3.7						
1930	3.8		3.7		3.9			3.8						
2100	3.7	4.2		3.7				3.9						
2230		4.3		3.8				4.1	3.8					3.5
2400	3.7	4.3	3.7	3.8	3.9	3.8	3.7	4.4	3.7	3.6	3.7	3.5	3.5	3.6

DATE	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29
TIME														
0130	3.7	3.6	3.6	3.6	3.9	4.6	3.7	3.7	4.6	3.7	3.9	4.3	4.3	4.3
0300	3.6				4.2	4.5	3.7		4.6		4.0	4.2		
0430	3.5				4.2	4.5	3.6		4.5			4.0		
0600		3.6			4.4	4.4			4.1		4.0	3.9		
0730		3.7			4.7	4.3			3.7		4.2			
0900		3.8			4.7	4.2	3.6		3.6		4.3			
1030		3.8			4.5	4.2	3.7							
1200		3.7	3.6		4.2	4.3					4.3	3.9		
1330			3.7	3.6	4.3	4.4					4.4	4.0		
1500				3.7	4.4	4.3				3.7				
1630					4.6	4.3				3.8				
1800	3.5				4.7	4.1		3.7					4.0	
1930	3.6					4.0		3.9		3.8			4.1	
2100		3.7		3.7		3.8		4.5	3.6	3.9	4.4	4.2		
2230		3.6		3.8		3.7		4.6	3.7		4.3			
2400	3.6	3.6	3.7	3.9	4.7	3.7	3.7	4.6	3.7	3.9	4.3	4.2	4.3	4.3

DATE	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12
TIME														
0130	4.1	4.0	4.0	4.1	4.2	4.1	4.1	4.0	3.9	4.0	3.9	3.8	4.0	4.1
0300		4.1	4.1		4.2	4.0	4.1		4.0			3.9		
0430					4.1		4.0		4.0			3.9		
0600	4.1			4.1					3.9			4.0		4.1
0730	4.0	4.1		4.0						4.0				4.0
0900	4.1	4.0			4.1			3.9	4.0	4.1				
1030	4.0				4.2			3.8	4.1					
1200		4.0						3.5	4.1					
1330	4.0	4.1						3.3	4.0		3.9			
1500	4.1			4.0				3.4		4.1	3.8			
1630		4.1		4.1				3.5		4.0				
1800		4.0		4.1				3.5	4.0					
1930				4.2		4.0		3.6	3.9					
2100			4.1			4.1		3.7	3.9		3.8			
2230	4.1		4.0					3.8	3.8	4.0	3.9			
2400	4.0	4.0	4.1	4.2	4.2	4.1	4.0	3.8	3.9	3.9	3.8	4.0	4.0	4.0

LAKE MICHIGAN, STATION 38 150 m. continued.

DATE	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26
TIME														
0130	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.9	3.8	4.0	3.7	3.1	3.3	3.4
0300									3.9					3.3
0430								3.9	3.9			3.1		
0600								3.8	4.0	4.0	3.7	3.2	3.3	
0730								3.8		3.9	3.6		3.4	
0900								3.7			3.5		3.4	
1030								3.6			3.3		3.5	3.3
1200								3.5		3.9	3.3			3.2
1330								3.4		3.8	3.4			
1500														
1630														
1800			4.0	4.0				3.4		3.8				
1930			3.9	3.9				3.5		3.7				
2100								3.5			3.4		3.5	
2230								3.6			3.3		3.4	3.2
2400	4.0	4.0	3.9	3.9	3.9	3.9	3.9	3.7	4.0	3.7	3.1	3.2	3.4	3.1
DATE	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9
TIME														
0130	3.1	3.1	3.1	3.1	3.2	3.3	3.1	3.0	3.0	2.9	3.0	3.3	3.1	3.0
0300											3.1	3.2	3.0	
0430		3.1									3.2	3.1	3.1	
0600		3.0				3.3					3.4	3.0	3.2	
0730					3.2	3.2								
0900					3.3									
1030														
1200														
1330							3.1				3.4	3.0		
1500							3.0				3.6	2.9	3.2	
1630														
1800		3.0				3.2				2.9	3.5	3.0	3.0	
1930		3.1				3.1				3.0	3.5	3.1		
2100				3.1					3.0		3.4		3.0	
2230				3.2					2.9		3.4		3.1	
2400	3.1	3.1	3.1	3.2	3.3	3.1	3.0	3.0	2.9	3.0	3.3	3.1	3.0	3.0
DATE	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23
TIME														
0130	3.0	3.0	3.0	3.3	3.0	3.1	3.1	3.0	3.1	2.8	3.0	3.0	3.0	3.0
0300										2.7				
0430										2.6				
0600							3.1			2.5				
0730				3.3			3.0			2.7				
0900				3.2						2.8				
1030				3.1						2.9				
1200				3.1						2.9		3.0		
1330			3.0	3.0				3.1		2.8		2.9		
1500			3.1							2.7				
1630									3.1	2.5				
1800					3.0				3.0	2.6				
1930			3.1		3.1				3.0	2.8				
2100			3.3						2.9	2.9		2.9		3.0
2230									2.9	3.0		3.0		2.9
2400	3.0	3.0	3.3	3.0	3.1	3.1	3.0	3.1	2.8	3.0	3.0	3.0	3.0	2.9

LAKE MICHIGAN, STATION 38 150 m. continued.

DATE	2-24	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8
TIME														
0130	2.9	3.0	3.0	3.0	3.0	2.9	3.0	3.0	2.9	2.6	2.1	2.1	2.6	2.6
0300	3.0			3.0							2.0	2.2		2.6
0430				2.9								2.3		2.5
0600							3.0							
0730	3.0						2.9							
0900	2.9			2.9										
1030	2.7			3.0		2.9						2.3		
1200	2.6					3.0	2.9					2.4		
1330	2.6						3.0	3.0	2.9			2.4		
1500	2.8							2.9	2.8	2.6		2.5		
1630	2.9								2.7	2.5				
1800	3.0				3.0				2.6	2.4	2.0			2.5
1930					2.9				2.5	2.4	2.1	2.5		2.4
2100									2.4	2.3		2.6		2.2
2230									2.5	2.2				2.1
2400	3.0	3.0	3.0	3.0	2.9	3.0	3.0	2.9	2.6	2.1	2.1	2.6	2.6	2.1
DATE	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22
TIME														
0130	2.1	2.2	2.9	2.8	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.8	2.5
0300	2.3	2.2		2.9									2.7	2.5
0430	2.4	2.1											2.6	2.6
0600	2.5						2.9					2.9	2.4	2.6
0730	2.6						2.8					2.8	2.6	2.5
0900		2.1											2.7	
1030		2.2											2.7	2.5
1200													2.8	2.4
1330	2.6													2.5
1500	2.5	2.2	2.9										2.8	2.6
1630	2.3	2.3	2.8										2.6	2.7
1800	2.1	2.3	2.7										2.5	2.8
1930	2.1	2.4	2.5										2.4	
2100	2.2	2.8	2.4											
2230		2.9	2.5										2.4	
2400	2.2	2.9	2.7	2.9	2.9	2.9	2.8	2.9	2.9	2.9	2.9	2.8	2.5	2.8
DATE	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5
TIME														
0130	2.8	2.9	2.8	2.8	2.6	2.4	2.5	2.6	2.6	2.6	2.4	2.4	2.2	2.3
0300							2.6				2.3			
0430				2.8	2.6		2.7							2.3
0600				2.7	2.5		2.8					2.4		2.4
0730		2.9		2.6			2.7					2.3		
0900		2.8				2.5	2.7							2.4
1030					2.4		2.6				2.3		2.2	2.5
1200				2.6			2.7				2.4		2.3	
1330				2.5								2.2		2.5
1500														2.6
1630	2.8			2.5		2.4	2.7							
1800	2.9			2.4		2.5	2.6			2.6				
1930				2.5						2.5				
2100										2.4				
2230														
2400	2.9	2.8	2.8	2.5	2.4	2.5	2.6	2.6	2.6	2.4	2.4	2.2	2.3	2.6

LAKE MICHIGAN, STATION 38 150 m. continued.

DATE	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19
TIME														
0130	2.5	2.4	2.4	2.2	2.4	2.4	2.3	2.4	2.2	2.2	2.2	2.3	2.4	2.3
0300			2.3					2.3						
0430				2.2				2.4						
0600				2.3				2.6						
0730	2.5					2.4		2.7						
0900	2.6		2.3			2.3								2.3
1030			2.4					2.7					2.4	2.2
1200								2.6					2.3	
1330								2.4						
1500	2.6		2.4					2.3				2.3		
1630	2.5		2.3	2.3				2.2				2.4		
1800				2.4										
1930	2.5													
2100	2.4						2.3				2.2			
2230			2.3				2.4				2.3			
2400	2.4	2.4	2.2	2.4	2.4	2.3	2.4	2.2	2.2	2.2	2.3	2.4	2.3	2.2
DATE	4-20	4-21	4-22	4-23	4-24	4-25	4-26	4-27	4-28	4-29	4-30	5-1	5-2	5-3
TIME														
0130	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.7	2.7	2.7	2.7
0300														2.7
0430														2.6
0600				2.2							2.7			
0730				2.1							2.6			
0900														
1030											2.6			
1200											2.7			
1330														
1500										2.2				2.6
1630										2.3				Data
1800					2.1					2.4				Ends.
1930					2.2					2.4				
2100										2.5				
2230										2.6				
2400	2.2	2.2	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.7	2.7	2.7	2.7	

LAKE MICHIGAN - STATION 40, Depth 10 m.

Start 3 December 1963, 1130 CST; end 19 April 1964, 1552 CST.

Instrument serial no. 143, Film record 20,204. Initial cal. +0.5°C, final cal. 0°C.

DATE	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16
TIME														
0130		6.8	6.8	7.1	7.1	7.0	7.1	7.1	7.0	7.0	6.8	5.8	6.3	6.3
0300												5.9		
0430												6.1	6.3	
0600				7.1									6.4	6.3
0730				7.0							6.8			6.2
0900			6.8								6.6			
1030			6.9								6.6			
1200	6.5		6.9			7.0					6.4			
1330			7.0			7.1				7.0	6.4			
1500	6.5		7.0							6.9	6.3	6.1		
1630	6.6		7.1							6.9	6.3	6.2		
1800	6.6			7.0	7.1					6.8	5.8			
1930	6.7			7.1	7.0						5.8			
2100											5.7			
2230												6.2		
2400	6.7	6.8	7.1	7.1	7.0	7.1	7.1	7.1	7.0	6.8	5.7	6.3	6.4	6.2

DATE	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30
TIME														
0130	6.3	6.2	6.3	6.2	6.0	5.8	5.5	5.6	5.5	5.6	5.6	5.3	5.3	5.3
0300					6.0									
0430					5.9			5.6						
0600			6.3		5.8			5.5						
0730			6.2				5.5	5.6						
0900						5.8								
1030					5.8	5.7								
1200	6.3				5.7									
1330	6.4					5.7				5.6				
1500	6.3				5.7	5.6				5.5				
1630				6.2	5.8	5.6								
1800	6.3			6.1		5.5								5.3
1930	6.2	6.2		6.1										5.2
2100		6.3		6.0							5.5			
2230											5.4			
2400	6.2	6.3	6.2	6.0	5.8	5.5	5.6	5.5	5.5	5.6	5.4	5.3	5.3	5.2

DATE	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13
TIME														
0130	5.2	5.2	5.2	5.3	5.3	5.2	5.1	5.1	5.0	5.2	5.2	5.2	5.1	5.1
0300														
0430			5.2			5.2			5.0			5.2		
0600			5.3			5.3	5.1		5.1			5.1		
0730						5.3	5.0		5.1					
0900					5.3	5.4			5.2					
1030					5.2									
1200						5.4								
1330						5.3								
1500					5.2	5.2								5.1
1630					5.1									5.2
1800														
1930						5.2		5.1						
2100						5.1		5.0						
2230														
2400	5.2	5.2	5.3	5.3	5.1	5.1	5.0	5.0	5.2	5.2	5.2	5.1	5.1	5.2

LAKE MICHIGAN, STATION 40, 10 m. continued.

DATE	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27
TIME														
0130	5.2	4.9	4.9	4.9	5.0	5.0	5.0	4.7	4.8	4.7	4.7	4.7	4.7	4.7
0300														
0430														
0600														
0730	5.2													
0900	5.1			4.9					4.8					
1030	5.1			5.0		5.0			4.7					
1200	5.0					4.9								
1330							5.0							
1500						4.9	4.9	4.7						4.7
1630	5.0					5.0		4.8						4.6
1800	4.9						4.9							
1930							4.8							
2100														
2230														
2400	4.9	4.9	4.9	5.0	5.0	4.8	4.8	4.7	4.7	4.7	4.7	4.7	4.7	4.6

DATE	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10
TIME														
0130	4.6	4.7	4.7	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.4	4.4	4.4	4.6
0300														
0430														
0600													4.4	
0730	4.6			4.6						4.5			4.5	
0900	4.7	4.7		4.7						4.4	4.4			
1030		4.6									4.5			
1200								4.6					4.5	
1330								4.5					4.6	
1500														
1630		4.6				4.6								4.6
1800		4.7				4.7								4.7
1930														
2100						4.7					4.5			
2230						4.6					4.4			
2400	4.7	4.7	4.7	4.7	4.6	4.6	4.6	4.5	4.5	4.4	4.4	4.4	4.6	4.7

DATE	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24
TIME														
0130	4.7	4.6	4.6	4.3	4.1	4.1	3.9	3.9	4.0	4.0	4.1	4.1	4.0	4.0
0300			4.6			4.1								
0430			4.5			4.0								
0600			4.5											
0730	4.7	4.6	4.4									4.1		
0900	4.6	4.7	4.4					3.9				4.0		
1030			4.3	4.3		4.0		4.0	4.0					
1200				4.2		3.9			3.9					
1330										4.0				
1500				4.2						4.1				
1630				4.1										
1800														
1930														
2100														
2230														
2400	4.6	4.7	4.3	4.2	4.1	3.9	3.9	4.0	3.9	4.1	4.1	4.0	4.0	4.0

LAKE MICHIGAN, STATION 40, 10 m. continued.

DATE TIME	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
0130	4.0	4.0	3.9	3.8	4.0	3.9	3.9	3.9	4.0	4.1	4.2	4.1	4.1	4.1
0300							3.9							
0430							3.8							
0600				3.8										
0730				3.9										
0900								3.9						
1030					4.0		3.8	4.0	4.0					
1200		4.0			3.9		3.9		4.1					
1330		3.9								4.1			4.1	
1500										4.2			4.0	
1630														
1800			3.9											
1930			3.8	3.9										
2100				4.0										
2230														
2400	4.0	3.9	3.8	4.0	3.9	3.9	3.9	4.0	4.1	4.2	4.2	4.1	4.0	4.1
DATE TIME	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23
0130	4.1	4.1	4.0	4.1	4.1	4.2	4.1	4.0	4.1	4.0	4.0	4.0	3.2	3.3
0300	4.1													
0430	4.0					4.2								
0600					4.1	4.1			4.1		4.0			
0730					4.2				4.0		3.9		4.0	3.2
0900												3.8	3.3	
1030												3.8		3.3
1200												3.3		3.2
1330			4.0	4.1				4.0	4.1	4.0	3.9			
1500			4.1	4.0			4.1		4.0	3.9	4.0			
1630							4.0							
1800		4.1										3.2		
1930	4.0	4.0												
2100	4.1			4.0										
2230				4.1										
2400	4.1	4.0	4.1	4.1	4.2	4.1	4.1	4.1	3.9	4.0	4.0	3.2	3.3	3.2
DATE TIME	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6
0130	3.3	3.2	3.3	3.3	3.3	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0300					3.3									
0430					3.2									
0600					3.2									
0730					3.1									
0900			3.3		3.1									
1030			3.4		3.0									
1200														
1330		3.2												
1500		3.3												
1630														
1800			3.4											
1930	3.3		3.3											
2100	3.2													
2230														
2400	3.2	3.3	3.3	3.3	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

LAKE MICHIGAN, STATION 40, 10 m. continued.

DATE	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20
TIME														
0130	3.0	3.0	2.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
0300														
0430														
0600														
0730														
0900			2.9											
1030			3.0											
1200														
1330														
1500														
1630														
1800														
1930		3.0												
2100		2.9												
2230														
2400	3.0	2.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		

3.0
End of
Record.

LAKE MICHIGAN - STATION 40, Depth 22 m.

Start 3 December 1963, 1130 CST; end 19 April 1964, 1552 CST.

Instrument serial no. 207, Film record 20,206. Initial cal. 0°C, final cal. -0.6°C.

DATE	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16
TIME														
0130		6.1	6.0	6.3	6.2	6.3	6.2	6.1	6.1	5.9	5.3	5.4	5.5	5.6
0300											5.2	5.4		
0430							6.2		6.1	5.9	5.1	5.5		
0600			6.0	6.3			6.1		6.0	6.0	5.1	5.5	5.5	
0730			6.1	6.4		6.3	6.1			6.0	5.2	5.6	5.6	
0900						6.2	6.0			5.9				
1030														
1200	6.0						6.0				5.2			
1330							6.1			5.9	5.4			
1500		6.1	6.1							5.8				
1630		6.0	6.2				6.1			5.7		5.6		
1800			6.2	6.4			6.0			5.6	5.4	5.5		
1930	6.0		6.3	6.3	6.2					5.5	5.3	5.6		
2100	6.1			6.3	6.3					5.5		5.6		
2230				6.2			6.0			5.4		5.5		
2400	6.1	6.0	6.3	6.2	6.3	6.2	6.1	6.1	6.0	5.3	5.3	5.5	5.6	5.6

LAKE MICHIGAN, STATION 40, 22 m. continued.

DATE	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30
TIME														
0130	5.6	5.6	5.4	5.2	5.1	5.2	5.2	5.1	5.0	4.9	4.8	4.9	4.4	4.8
0300														
0430														
0600					5.1									
0730					5.0									
0900		5.6						5.1	5.0	4.9				
1030		5.5						5.0	4.9	4.8		4.9		
1200					5.0							4.8		
1330					5.1								4.4	
1500													4.5	
1630											4.8			
1800			5.4					4.9			4.9			
1930			5.3				5.2	5.0					4.5	
2100		5.5		5.2	5.1		5.1	5.0				4.8	4.6	
2230		5.4		5.1	5.2			4.9				4.7	4.6	
2400	5.6	5.4	5.3	5.1	5.2	5.2	5.1	5.0	4.9	4.8	4.9	4.4	4.7	4.8
DATE	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13
TIME														
0130	4.8	4.9	4.8	4.7	4.4	4.3	5.0	4.9	4.6	4.5	4.5	4.4	4.1	4.3
0300			4.7	4.5		4.3								
0430			4.6	4.4	4.4	4.2								
0600			4.5	4.3	4.3		5.0					4.4		
0730			4.5	4.3			4.9					4.3	4.1	
0900			4.4	4.4		4.2	4.9		4.6				4.0	
1030			4.3	4.3	4.3	4.3	4.8		4.5					
1200			4.2		4.2	4.4								4.3
1330						4.5	4.8		4.5					4.2
1500		4.9		4.3		4.5	4.9		4.4			4.3	4.0	
1630	4.8	4.8		4.4		4.6		4.9				4.2	4.1	4.2
1800	4.9		4.2		4.2	4.7		4.8					4.2	4.3
1930			4.3		4.3	4.8		4.8			4.5		4.2	
2100			4.4			4.9		4.7			4.4		4.3	
2230			4.5			5.0			4.4					
2400	4.9	4.8	4.6	4.4	4.3	5.0	4.9	4.7	4.5	4.5	4.4	4.2	4.3	4.3
DATE	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27
TIME														
0130	4.3	4.3	4.3	4.1	3.9	3.9	3.7	3.7	4.1	4.1	3.7	3.8	4.1	4.0
0300						3.9	3.7					3.8		
0430						4.0	3.6					3.9		
0600				4.1				3.7				4.0		4.0
0730				4.0				3.8				4.0		4.1
0900		4.3	4.3			4.0					3.7	4.1		
1030		4.2	4.2			3.9					3.8			
1200	4.3					3.9					4.0		4.1	
1330	4.4					4.0					4.0		4.0	
1500			4.2			4.0				4.1	4.0		4.0	4.1
1630			4.3	4.0		4.1				4.0	3.8		3.9	4.0
1800	4.4			3.9			3.6	3.8		4.0			3.9	4.0
1930	4.3		4.3				3.7	4.0		3.9	3.8		4.0	3.9
2100	4.3	4.2	4.2			4.1		4.1		3.9	3.5			3.8
2230	4.2	4.3				4.0				3.8	3.4			3.7
2400	4.2	4.3	4.2	3.9	3.9		3.7	4.1	4.1	3.8	3.5	4.1	4.0	3.5

LAKE MICHIGAN, STATION 40, 22 m. continued.

DATE	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10
TIME														
0130	3.5	3.5	3.5	3.7	3.7	3.8	3.7	3.7	3.8	3.8	3.9	3.5	3.2	3.2
0300				3.7								3.5		
0430				3.8		3.8						3.4		
0600		3.5	3.5			3.7	3.7				3.9	3.4		
0730		3.4	3.6				3.8				3.8	3.3		
0900	3.5	3.4												
1030	3.6	3.5												
1200	3.6		3.6								3.8	3.3		
1330	3.7		3.7								3.7	3.2		
1500														
1630				3.8	3.7		3.8	3.7		3.8				
1800	3.7			3.7	3.8		3.7	3.8		3.9				
1930	3.6													
2100	3.6													
2230	3.5										3.7			
2400	3.5	3.5	3.7	3.7	3.8	3.7	3.7	3.8	3.8	3.9	3.6	3.2	3.2	3.2
DATE	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24
TIME														
0130	3.2	3.2	3.1	3.0	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.2	3.1	3.1
0300														
0430														
0600														3.1
0730														3.0
0900			3.1											
1030			3.0											
1200				3.0										
1330				3.1										
1500														
1630				3.1								3.2		
1800			3.2							3.2	3.1	3.1		
1930										3.1	3.2			
2100														
2230														
2400	3.2	3.2	3.0	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.2	3.1	3.1	3.0
DATE	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
TIME														
0130	3.0	3.0	3.1	3.1	3.1	3.1	3.0	3.2	3.1	3.1	3.0	3.0	3.0	3.0
0300														
0430								3.2				3.0		
0600		3.0				3.1	3.0	3.1				3.1		
0730		3.1				3.0	3.1			3.1				
0900										3.0				
1030														
1200														
1330														
1500							3.1							
1630							3.2							
1800														
1930												3.1		
2100												3.0		
2230														
2400	3.0	3.1	3.1	3.1	3.1	3.0	3.2	3.1	3.1	3.0	3.0	3.0	3.0	3.0

LAKE MICHIGAN, STATION 40, 22 m. continued.

DATE TIME	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23
0130	3.0	3.0	3.1	3.0	2.8	2.8	2.8	2.9	2.8	2.6	2.8	3.0	3.0	2.8
0300										2.6				
0430										2.7				
0600									2.8				3.0	
0730									2.7		2.9		2.9	
0900		3.0												
1030		3.1												
1200				3.0									2.9	
1330				2.9						2.7			2.8	
1500										2.8	2.9			
1630				2.9			2.8	2.9	2.7					
1800				2.8			2.9	2.8	2.6					2.8
1930														2.7
2100														
2230														
2400	3.0	3.1	3.1	2.8	2.8	2.8	2.9	2.8	2.6	2.8	3.0	3.0	2.8	2.7
DATE TIME	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6
0130	2.7	2.7	2.6	2.6	2.7	2.9	2.8	2.6	2.6	2.3	2.3	2.2	2.2	2.5
0300														2.5
0430														2.4
0600									2.6				2.2	
0730				2.6					2.5				2.3	
0900				2.7									2.3	
1030													2.4	
1200													2.4	
1330						2.9							2.5	
1500						2.8	2.8				2.3			
1630		2.7			2.7		2.7				2.2			
1800		2.6			2.8				2.5					
1930									2.4					
2100							2.7		2.3					
2230							2.6							
2400	2.7	2.6	2.6	2.7	2.8	2.8	2.6	2.6	2.3	2.3	2.2	2.2	2.5	2.4
DATE TIME	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20
0130	2.4	2.6	2.1	2.1	2.1	2.2	2.3	1.4						
0300					2.1									
0430					2.0	2.2								
0600	2.4					2.3								
0730	2.5					2.4								
0900		2.6					2.3							
1030		2.5					1.4							
1200		2.5	2.1	2.1	2.0									
1330		2.4	2.2	2.2	1.9									
1500		2.3			1.9									
1630	2.5	2.3	2.2	2.2	2.0									
1800	2.6	2.2	2.1	2.1				1.4						
1930				2.0	2.0	2.4		End of						
2100					2.1	2.5		Record.						
2230						2.4								
2400	2.6	2.2	2.1	2.0	2.1	2.4	1.4							

LAKE MICHIGAN - STATION 40, Depth 30 m.

Start 3 December 1963, 1130 CST; end 19 April 1964, 1552 CST.

Instrument serial no. 120, Film record 20,207. Initial cal. -1.0°C, final cal. 0°C.

DATE	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16
TIME														
0130		8.7	9.0	8.8	8.7	8.5	8.0	7.3	7.9	7.9	7.9	7.3	6.9	7.0
0300				8.8	8.7	8.4		7.2				7.2	6.7	
0430				8.7	8.6							7.2		
0600				8.7	8.5	8.4					7.9	7.1	6.7	
0730				8.8	8.1	8.3					7.8	7.1	6.8	
0900				8.8	7.4	8.4	8.0	7.2			7.7	7.0	6.9	
1030				8.7	8.0	8.4	7.9	7.4			7.6	6.9		
1200	8.2		9.0	8.8	8.1	8.3	7.7	7.5			7.6			
1330	8.5		8.9		8.2	8.3	7.2	7.9			7.5			
1500			8.7		8.2	8.3	7.1							
1630	8.5			8.8	8.3	11.2	7.1	7.9			7.5		6.9	
1800	8.7	8.7	8.7	8.7	8.3	11.2	7.0	7.8	7.9		7.4		7.0	7.0
1930		8.8	8.8		8.4	8.2		7.8	7.8				6.9	
2100		8.9			8.5	8.1	7.0	7.9	7.8		7.4			
2230		9.0				8.0	7.1		8.0		7.3			
2400	8.7	9.0	8.8	8.7	8.5	8.1	7.1	7.9	7.9	7.9	7.3	6.9	7.0	6.9

DATE	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30
TIME														
0130	6.9	6.7	6.4	6.4	6.5	6.7	6.2	6.1	5.9	6.6	6.3	6.2	6.1	6.3
0300	6.9	6.6		6.3			6.1	6.0	6.0		6.2		6.0	
0430	6.8					6.7	6.0	6.2	6.1					
0600						6.8		5.9	6.2		6.2		6.0	6.3
0730						6.8			6.3		6.1		5.9	6.2
0900		6.6	6.4			6.7	6.0		6.5				5.9	6.2
1030		6.5	6.5				6.1		6.6	6.6			5.8	6.1
1200							6.1		6.7	6.5				
1330		6.5					6.2	5.9	6.7					
1500		6.4					6.2	6.0	6.6				5.8	
1630							6.1		6.6	6.5			5.7	
1800	6.8							6.0	6.5	6.4			5.7	
1930	6.7		6.5		6.5	6.7	6.1	5.9	6.4	6.5	6.1	6.2	6.0	
2100			6.4	6.3	6.6	6.6	6.2		6.5	6.4	6.2	6.1	6.1	
2230				6.4	6.6	6.5	6.1		6.6	6.3			6.2	
2400	6.7	6.4	6.4	6.4	6.7	6.4	6.1	5.9	6.6	6.3	6.2	6.1	6.3	6.1

DATE	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13
TIME														
0130	6.1	6.1	5.6	5.7	5.4	5.7	5.7	5.6	5.6	5.1	5.2	5.4	5.5	5.3
0300		6.1						5.6	5.7	5.5		5.5		
0430		6.0	5.6					5.5						
0600		6.0	5.5					5.4			5.1			
0730		5.9		5.7				5.5			5.3			
0900	6.1	5.8		5.6				5.4			5.4			
1030	6.0		5.5								5.3			
1200			5.6	5.6			5.4		5.5	5.2	5.2			
1330				5.5			5.5		5.6		5.3			
1500							5.6							
1630				5.5			5.6		5.6					
1800				5.4			5.5		5.5		5.3			
1930		5.8			5.4				5.5		5.4			
2100		5.7	5.6		5.5		5.5		5.2				5.4	5.3
2230	6.0	5.6	5.7	5.4	5.7		5.4		5.1					5.2
2400	6.1	5.6	5.7	5.3	5.7	5.7	5.5	5.7	5.1	5.2	5.4	5.5	5.4	5.2

LAKE MICHIGAN, STATION 40, 30 m. continued.

DATE TIME	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27
0130	5.1	5.1	5.1	4.6	4.5	4.6	4.4	4.5	4.5	4.6	4.5	4.3	4.3	4.2
0300			5.0											
0430			4.9											
0600			4.7		4.5	4.6					4.5			4.2
0730			4.6		4.6	4.5	4.4				4.4			4.3
0900							4.5							
1030										4.6				
1200										4.5				
1330				4.6									4.3	
1500				4.5									4.2	
1630														
1800									4.5			4.3		
1930									4.6			4.4		
2100												4.4		
2230						4.5					4.4	4.3		
2400	5.1	5.1	4.6	4.5	4.6	4.4	4.5	4.5	4.6	4.5	4.3	4.3	4.2	4.3

DATE TIME	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10
0130	4.3	4.2	4.2	4.2	4.2	4.2	4.1	4.0	4.0	4.1	4.2	3.6	3.6	3.6
0300								4.1			4.1			
0430														
0600									4.0					
0730									4.2					
0900									4.1					
1030											4.1			
1200											4.0			
1330														
1500														
1630							4.1	4.1			4.0			
1800							4.0	4.0		4.1	3.9			
1930										4.2	3.8			
2100	4.3										3.8			3.6
2230	4.2										3.7			3.4
2400	4.2	4.2	4.2	4.2	4.2	4.2	4.1	4.0	4.1	4.2	3.7	3.6	3.6	3.4

DATE TIME	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24
0130	3.3	3.4	3.6	3.4	3.2	3.2	3.2	3.4	3.4	3.2	3.1	3.0	3.0	3.2
0300	3.2										3.0			3.2
0430		3.4						3.4						3.1
0600		3.5		3.4			3.2	3.5						
0730				3.3			3.3							
0900		3.5							3.4					
1030		3.6							3.5			3.0		
1200								3.5	3.5			2.9		
1330	3.2							3.6	3.3				3.0	
1500	3.3												3.1	
1630				3.3									3.2	
1800			3.6	3.1	3.2									
1930			3.4		3.3			3.6						
2100	3.3							3.5	3.3			2.9		
2230	3.4							3.4	3.2	3.2		3.0		
2400	3.4	3.6	3.4	3.1	3.3	3.2	3.3	3.4	3.2	3.1	3.0	3.0	3.2	3.1

LAKE MICHIGAN, STATION 40, 30 m. continued.

DATE	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
TIME														
0130	3.1	2.9	2.5	2.9	3.1	3.4	3.4	3.3	3.3	3.3	3.1	3.0	2.9	2.5
0300			2.6	3.0						3.3	3.0			2.3
0430			2.5		3.1					3.2	3.1			2.2
0600		2.9			3.2						3.1			
0730	3.1	3.0									3.0			
0900	3.2	2.9	2.5											
1030		2.8	2.4		3.2			3.3			3.0			
1200			2.4	3.0	3.3			3.4			2.8			2.2
1330	3.2		2.5	3.1		3.4	3.4						2.9	2.1
1500	3.1		2.5			3.3	3.3	3.4					3.0	
1630	3.1	2.8	2.7		3.3			3.3		3.2				
1800	3.0	2.9	2.8		3.4	3.3				3.1				2.1
1930		2.9	2.9			3.4				3.0	2.8			2.2
2100		2.7								3.1	2.9		3.0	
2230		2.5										3.0	2.9	
2400		2.5	2.9	3.1	3.4	3.4	3.3	3.3	3.3	3.1	2.9	2.9	2.8	2.2

DATE	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23
TIME														
0130	2.2	2.5	2.6	2.9	3.1	3.0	3.1	2.8	2.7	2.7	2.6	2.4	2.2	2.3
0300			2.7	3.0			2.9		2.6		2.5	2.3	2.3	
0430	2.2			3.1										
0600	2.3									2.7				
0730										2.6				2.3
0900	2.3					3.0					2.5			2.4
1030	2.4					3.1			2.6		2.4			
1200	2.4		2.7						2.7		2.3			
1330	2.5		2.8								2.3			
1500											2.4			
1630							2.9							
1800							2.8	2.8						
1930								2.7						
2100														
2230												2.3		2.4
2400	2.5	2.5	2.8	3.1	3.1	3.1	2.8	2.7	2.7	2.6	2.4	2.2	2.3	2.3

DATE	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6
TIME														
0130	2.3	2.3	2.4	2.3	2.4	2.2	2.2	2.3	2.4	2.3	2.4	2.4	2.5	2.5
0300		2.4				2.2								
0430						2.3								
0600					2.4	2.4								
0730					2.3									
0900		2.4				2.4								
1030		2.3				2.3								
1200												2.4		
1330												2.5		
1500														
1630														
1800						2.3	2.2							
1930			2.4	2.3		2.2	2.3							
2100			2.3	2.4					2.4	2.3				
2230									2.3	2.4				
2400	2.3	2.3	2.3	2.4	2.3	2.2	2.3	2.3	2.3	2.4	2.4	2.5	2.5	2.5

LAKE MICHIGAN, STATION 40, 30 m. continued.

DATE TIME	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20
0130	2.5	2.5	2.5	2.6	2.5	2.4	2.4	2.7	2.8	2.8	2.8	2.8	2.9	
0300													2.9	
0430													2.8	
0600								2.7						
0730								2.8						
0900														
1030		2.5					2.4							
1200		2.6					2.5					2.8		
1330							2.6					2.9		
1500							2.7							
1630					2.5								2.8	
1800		2.6			2.4								End of	
1930		2.5											Record.	
2100														
2230			2.6											
2400	2.5	2.5	2.5	2.5	2.4	2.4	2.7	2.8	2.8	2.8	2.8	2.9		

LAKE MICHIGAN - STATION 40, Depth 60 m.

Start 3 December 1963, 1130 CST; end 19 April 1964, 1552 CST.

Instrument serial no. 329, Film record 20,208. Initial cal. 0°C, final cal. 0°C.

DATE TIME	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16
0130		4.9	5.7	5.0	5.4	5.8	6.2	5.9	5.9	6.2	6.3	5.9	5.4	5.9
0300		6.1	4.9	4.9	5.1	5.9	6.3		5.8	6.0		5.7		
0430		6.2	5.2	5.4	5.0	6.2	5.4	5.9	5.8	6.0		5.7		5.9
0600		6.1	5.7	5.0	4.9	6.0	5.0	5.8	6.0	5.9	6.3	5.8		5.8
0730		5.9	5.8		4.6		5.4	5.7	6.1	6.1	6.2			
0900		5.9	6.4	5.0	4.5		5.1	5.4	6.1	6.0	6.1	5.8		5.8
1030		5.8	7.0	5.1	4.5	6.0	4.9	5.5	6.2	6.1		5.7		5.9
1200	4.8	6.2	6.5	5.6	4.4	6.4	4.2	5.6		6.3	6.1			
1330	5.2	6.2	5.9	5.9	4.1		4.1	5.6			6.0			
1500	5.0	6.3	5.8	5.7	5.0	6.4	4.5	5.7	6.2		6.0			
1630		6.5	5.4	5.8	6.2	5.9	5.0	5.8	6.1	6.3	6.1	5.7	5.4	
1800	5.0	7.1	5.4		6.8	5.4	4.2	5.9	6.0	6.2	6.0	5.6	5.6	
1930	4.8	7.0	5.5	5.8	6.8	5.3	4.7		6.0	6.2	5.9	5.5	5.7	
2100	4.9	7.0	5.3	5.7	6.7	5.1	5.0		6.1	6.3		5.4	5.8	5.9
2230		6.4	5.5	6.6	6.7	4.9	5.7		6.1				5.8	5.8
2400	4.9	5.9	5.0	6.0	5.9	5.2	5.8	5.9	6.2	6.3	5.9	5.4	5.9	5.8

LAKE MICHIGAN, STATION 40, 60 m. continued.

DATE TIME	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30
0130	5.7	5.3	5.2	5.1	5.1	5.3	4.8	5.0	4.9	5.6	5.2	5.1	5.0	5.2
0300	5.7	5.1				5.2		5.0			5.1		4.9	
0430	5.6	5.2					4.8	4.9	4.9		5.1		4.9	5.2
0600	5.5			5.1			4.9	4.9	5.0		5.0		4.8	5.1
0730	5.4	5.2	5.2	5.0	5.1			4.8			5.0		4.8	5.1
0900	5.4	4.9	5.3		5.2	5.2					5.1		4.7	5.0
1030	5.5	5.0		5.0		5.1							4.6	
1200	5.5	5.1		5.1				4.8	5.0	5.6			4.5	5.0
1330	5.2							4.9	5.1	5.5	5.1		4.5	5.1
1500	5.1								5.1	5.4	5.0		4.4	
1630	5.3					5.1			5.2					
1800	5.2				5.2	5.2			5.2	5.4	5.0	5.1	4.4	
1930	5.3				5.3	5.2	4.9		5.3	5.3	4.9	5.0	4.6	
2100	5.1		5.3	5.1		5.1	5.0		5.3	5.3	4.9	5.0	5.0	
2230	5.0		5.2	5.2		4.9	4.8		5.4	5.2	5.0	4.9	5.1	5.1
2400	5.1	5.1	5.1	5.3	5.3	4.7	5.0	4.9	5.5	5.2	5.1	4.9	5.2	5.2

DATE TIME	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13
0130	5.2	5.1	4.2	4.2	4.1	4.8	4.5	4.2	4.4	4.0	4.0	4.3	4.3	4.2
0300	5.2	5.1					4.4	4.3	4.3					
0430	5.1	5.0					4.3	4.5		4.0				
0600	5.1	5.0					4.2	4.7		4.1				
0730	5.0	4.9						4.8						
0900								4.8		4.1				
1030	5.0						4.2	4.9	4.3	4.0				
1200	5.1		4.2				4.3		4.4		4.0			
1330		4.9	4.1	4.2							4.1			
1500	5.1	4.8	4.1	4.1			4.3				4.2			
1630	5.0	4.7	4.2		4.1		4.2		4.4					
1800		4.6			4.2		4.1		4.2		4.2		4.3	
1930	5.0	4.5			4.4		4.2		4.1		4.3		4.2	
2100	5.1	4.4			4.6		4.1	4.9	4.1					
2230		4.3			4.7	4.8		4.8	4.0				4.2	
2400	5.1	4.3	4.2	4.1	4.8	4.6	4.1	4.6	4.0	4.0	4.3	4.3	4.1	4.2

DATE TIME	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27
0130	4.2	4.2	4.0	3.3	3.3	3.3	3.1	3.3	3.3	3.3	3.3	3.3	3.3	3.2
0300			3.8											
0430		4.2	3.5											
0600		4.1	3.4				3.1							
0730			3.3			3.3	3.2							
0900						3.2	3.2							
1030	4.2						3.3							
1200	4.1													
1330														
1500														
1630		4.1												
1800		4.0								3.3			3.3	
1930						3.2				3.2			3.2	3.2
2100						3.1				3.3				3.1
2230														
2400	4.1	4.0	3.3	3.3	3.3	3.1	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.1

LAKE MICHIGAN, STATION 40, 60 m. continued.

DATE TIME	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10
0130	3.1	3.1	3.1	3.0	3.0	3.1	3.0	3.0	3.1	3.1	3.1	2.9	2.9	2.9
0300		3.0												
0430														
0600					3.0									
0730					3.1									
0900				3.0										
1030			3.1	3.1									2.9	
1200		3.0	3.0										3.0	
1330		3.1												
1500														
1630								3.0			3.1		3.0	
1800						3.1		3.1			3.0		2.9	
1930						3.0								
2100														2.9
2230														2.8
2400	3.1	3.1	3.0	3.1	3.1	3.0	3.0	3.1	3.1	3.1	3.0	2.9	2.9	2.7
DATE TIME	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24
0130	2.7	2.9	3.0	2.9	2.9	2.9	2.7	2.8	3.0	2.7	2.5	2.5	2.2	2.8
0300	2.7			2.8		2.8	2.7	2.9			2.6			2.8
0430	2.6				2.9	2.6	2.6				2.5			2.7
0600	2.7				2.8	2.7	2.7		3.0					2.7
0730	2.8	2.9		2.8		2.6			2.9		2.5			2.6
0900		3.0		2.9		2.5		2.9			2.6	2.5		
1030						2.5		3.0			2.5	2.4	2.2	
1200					2.8	2.6				2.7	2.4	2.4	2.3	
1330					2.9					2.8	2.4	2.2	2.3	
1500	2.8									2.7	2.5		2.4	
1630	2.7		3.0	2.9					2.9		2.5		2.5	
1800	2.8		2.9	2.8		2.6			2.8		2.6		2.6	
1930	2.9			2.8		2.7	2.7		2.8		2.5	2.2	2.7	2.7
2100	2.8			2.9	2.9		2.8		2.7			2.3		
2230	2.8				2.8					2.7		2.2	2.7	
2400	2.9	3.0	2.9	2.9	2.9	2.7	2.8	3.0	2.7	2.6	2.5	2.2	2.8	2.7
DATE TIME	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
0130	2.7	2.6	2.6	2.4	2.6	2.9	2.9	2.9	2.9	2.9	2.5	2.4	2.3	2.2
0300		2.6						2.8		2.9		2.5		2.0
0430		2.7							2.9	2.8				2.0
0600	2.7	2.7	2.6	2.4	2.6			2.8	2.8		2.5			1.9
0730	2.8	2.8	2.5	2.5	2.7			2.9			2.4			
0900		2.8	2.4		2.7						2.4		2.3	1.9
1030		2.7	2.5	2.5	2.8						2.3		2.4	2.0
1200		2.6	2.5	2.6	2.9			2.9	2.8					2.0
1330		2.4	2.6					3.0	2.9					1.9
1500	2.8		2.6					2.9			2.8	2.3		
1630	2.7	2.4	2.5							2.7	2.2			
1800	2.5	2.5	2.4								2.3		2.5	1.9
1930													2.4	2.0
2100	2.5												2.4	2.3
2230	2.6	2.5							2.9	2.7			2.3	2.0
2400	2.6	2.6	2.4	2.6	2.9	2.9	2.9	2.9	2.8	2.6	2.3	2.3	2.2	2.1

LAKE MICHIGAN, STATION 40, 60 m. continued.

DATE TIME	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23
0130	2.2	2.2	2.4	2.7	2.7	2.7	2.7	2.5	2.4	2.2	2.2	2.4	2.1	2.1
0300	2.4	2.2	2.3					2.6	2.4			2.4		
0430	2.5	2.3					2.7		2.2		2.2	2.3		
0600	2.8	2.2					2.6	2.6			2.1			
0730	2.7		2.3	2.7			2.6	2.5			2.1	2.3		
0900	2.8		2.4	2.8			2.5				2.2	2.1	2.1	
1030							2.5						2.2	
1200							2.4				2.2		2.1	
1330	2.8	2.2									2.3			
1500	2.7	2.3						2.5						
1630	2.6	2.2		2.8				2.6			2.3			
1800	2.4			2.7			2.4	2.5			2.1			
1930	2.3	2.2	2.4				2.5	2.4			2.2			
2100	2.2	2.1	2.6								2.2			
2230		2.3	2.7								2.3			
2400	2.2	2.4	2.7	2.7	2.7	2.7	2.5	2.4	2.2	2.2	2.4	2.1	2.1	2.1

DATE TIME	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6
0130	2.1	2.1	2.1	2.1	2.2	2.0	1.9	1.9	2.1	2.1	2.2	2.1	2.2	2.2
0300				2.2	2.1	2.1			2.0					
0430	2.1				2.0	2.1								
0600	2.0	2.1				2.2								
0730		2.0									2.2			
0900								1.9			2.1			
1030			2.1					2.0	2.0					
1200			2.0						2.1					
1330			2.1											
1500						2.2								2.2
1630			2.1			2.1						2.1		2.1
1800			2.0	2.2		2.0						2.2		
1930			2.1	2.1		2.0				2.1				
2100		2.0		2.2		1.9				2.2				
2230		2.1						2.1						
2400	2.0	2.1	2.1	2.2	2.0	1.9	1.9	2.1	2.1	2.2	2.1	2.2	2.2	2.1

DATE TIME	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20
0130	2.2	2.1	2.2	2.2	2.1	2.2	2.2	2.3	2.3	2.4	2.4	2.3	2.4	
0300						2.1								
0430	2.2		2.2											
0600	2.1		2.1											
0730														
0900		2.1					2.2					2.3		
1030		2.2				2.1	2.3		2.3			2.4		
1200					2.1	2.2		2.4						
1330					2.2									
1500														
1630											2.4			
1800											2.3			
1930			2.1	2.2										
2100			2.2	2.1										
2230											2.3			
2400	2.1	2.2	2.2	2.1	2.2	2.2	2.3	2.3	2.4	2.4	2.4	2.4		

2.4
End of
Record.

LAKE MICHIGAN - STATION 40, Depth 90 m.

Start 3 December 1963, 1130 CST; end 19 April 1964, 1552 CST.

Instrument serial no. 285, Film record 20,209. Initial cal. 0°C, final cal. 0°C.

DATE	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16
TIME														
0130		4.1	4.8	4.8	4.3	4.1	5.1	4.3	4.6	4.5	4.5	4.8	5.1	4.9
0300			4.6	4.7	4.1	4.2	5.2	4.2	4.4	4.3	4.4	5.0	5.4	4.7
0430			4.6	4.5	4.1	4.3	5.3		4.2	4.3	4.3	5.5	5.6	4.5
0600			4.5	4.3	4.3	4.4	5.4			4.4	4.2	5.8	5.8	
0730			4.4	4.2	4.5	4.5	5.2			4.6		5.6		4.5
0900		4.1	4.2	4.4	4.9	4.7	5.0		4.2	4.8		6.0	5.8	4.4
1030		4.2		4.6	4.8	4.8	4.9		4.9	4.9	4.2	6.2	5.6	4.6
1200	4.5	4.4		4.8	4.8		4.8		4.5	5.0	4.3	5.8	5.4	5.0
1330	4.6	4.6	4.2	4.3	4.6		4.6		4.5	5.0	4.5	5.1	5.3	5.3
1500	4.8	4.8	5.2	4.1	4.5		4.4		4.7	4.9	4.8	5.2	5.2	5.6
1630	4.4	4.8	5.4		4.4		4.4	4.2	4.8	4.9		5.2	5.3	5.7
1800	4.2	4.2	5.4		4.3	4.8	4.6	5.2	5.0	4.8		5.0	5.1	5.6
1930	4.1	4.1	5.0		4.2	4.9	5.3	6.0	4.7	4.7	4.8	4.9	5.0	
2100		4.5	4.9		4.1	5.0	4.6	5.4	5.0	4.6	4.7	4.8	5.3	5.6
2230		4.7	4.7	4.1		4.9	4.3	4.8	4.6	4.5	4.7	5.0	5.2	5.5
2400	4.1	4.8	4.7	4.4	4.1	5.0	4.2	4.8	4.6	4.5	4.8	5.3	5.1	5.3

DATE	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30
TIME														
0130	5.3	5.2	5.3	4.9	5.5	5.0	5.4	5.4	5.2	5.1	4.8	5.0	5.3	5.3
0300	5.3	5.4	5.4	4.8	5.5	4.9		5.5			4.9		5.3	5.2
0430	5.0	5.5	5.3	4.6	5.4	4.9	5.4			5.1	5.0		5.4	5.1
0600	4.9	5.6	5.3	4.4	5.3	5.0	5.5		5.2	5.0	5.0		5.5	5.2
0730	5.0		5.2	4.3	5.4	5.2			5.1		5.1			
0900	5.2	5.6	5.2	4.4	5.6	5.3		5.5		5.0			5.5	5.2
1030	5.2	5.5	5.1	4.6	5.3	5.4		5.4	5.1	4.9	5.1		5.4	5.1
1200	5.3	5.6	5.0	4.9			5.5	5.3	5.0	4.7	5.0	5.0	5.3	4.9
1330	5.3	5.7	5.0	5.2			5.4	5.2		4.6		5.1		5.1
1500	5.4		4.9		5.3		5.3	5.1		4.3		5.2	5.3	5.2
1630	5.2		4.8	5.2	5.4	5.4	5.2	5.0	5.0	4.9		5.3	5.4	5.3
1800	4.8	5.7	4.7	5.0	5.3	5.3	5.1	5.1	5.1	5.1		5.3	5.3	5.3
1930	4.4	5.6	4.7	4.9	5.3	5.3	5.1	5.2		5.0		5.2	5.3	5.1
2100	4.3	5.5	4.8	5.2	5.1	5.2	5.0			4.9			5.2	5.0
2230	4.3	5.4	4.7	5.3	5.2	5.3	5.2			4.7			5.2	4.9
2400	4.5	5.3	4.9	5.5	5.1	5.3	5.3	5.2	5.1	4.7	5.0	5.2	5.3	4.9

DATE	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13
TIME														
0130	4.9	4.8	4.7	5.3	5.2	5.0	4.5	4.5	4.2	4.7	4.8	4.4	5.1	4.7
0300	5.0	4.8	4.8				4.5	4.4		4.8	4.7			4.7
0430	5.1	4.7	4.9				4.6			4.8	4.6			4.8
0600	5.2	4.7	5.0			5.0				4.9	4.5			
0730	5.1	4.8	5.0			4.9			4.2		4.6	4.4	5.1	
0900	4.9		5.1	5.3		4.8		4.4	4.3		4.5	4.5	5.0	4.8
1030	4.8	4.8	5.2	5.4		4.7		4.3					5.0	4.7
1200	4.7	4.9	5.3	5.4		4.7	4.6		4.3				4.9	4.6
1330	4.8	5.0	5.4	5.5	5.2	4.6	4.5	4.3	4.4			4.5	4.8	4.5
1500	4.8	5.0		5.5	5.3		4.6	4.2				4.6	4.7	4.4
1630	4.7	4.9	5.4	5.4								4.7	4.6	
1800	4.8	4.9	5.3								4.5	4.8	4.7	
1930	4.8	4.8		5.4	5.3	4.6			4.4		4.6	4.9		
2100	4.7	4.8	5.3	5.3	5.2	4.5	4.6		4.5		4.6	5.0	4.6	4.4
2230		4.7	5.2	5.2	5.1		4.5		4.5		4.5	5.0	4.7	4.5
2400	4.7	4.7	5.2	5.2	5.0	4.5	4.5	4.2	4.6	4.9	4.5	5.1	4.7	4.5

LAKE MICHIGAN, STATION 40, 90 m. continued.

DATE	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27
TIME														
0130	4.5	4.3	4.8	4.8	4.6	4.5	4.5	4.5	3.9	3.8	3.8	3.7	3.4	3.7
0300	4.4	4.3							3.9			3.7		
0430	4.4	4.4							3.8			3.6	3.4	
0600	4.3												3.5	
0730										3.8			3.5	
0900					4.6					3.9			3.6	
1030					4.5		4.5	4.5				3.6	3.7	
1200		4.4					4.6	4.4				3.5	3.7	3.7
1330		4.5				4.5		4.4					3.8	3.8
1500		4.6				4.6		4.3					3.8	
1630		4.7			4.5			4.2					3.7	3.8
1800		4.7			4.6			4.1						3.7
1930		4.8			4.6			4.0				3.5		
2100				4.8	4.5	4.6	4.6	4.0		3.9		3.4		
2230				4.7	4.5	4.5	4.5	3.9		3.8				
2400	4.3	4.8	4.8	4.6	4.5	4.5	4.5	3.9	3.8	3.8	3.8	3.4	3.7	3.7

DATE	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10
TIME														
0130	3.7	3.7	3.8	3.8	3.8	3.7	3.6	3.6	3.5	3.5	3.5	3.5	3.6	3.7
0300						3.7	3.6							3.7
0430						3.6	3.7							3.6
0600														
0730					3.8									
0900					3.7									
1030														
1200														
1330							3.7							3.6
1500							3.6							3.5
1630														3.5
1800		3.7												3.4
1930		3.8						3.6					3.6	3.4
2100								3.5					3.7	3.3
2230														
2400	3.7	3.8	3.8	3.8	3.7	3.6	3.6	3.5	3.5	3.5	3.5	3.5	3.7	3.3

DATE	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24
TIME														
0130	3.4	3.5	3.4	3.4	3.5	3.5	3.1	3.1	3.1	3.0	3.2	3.3	3.3	3.4
0300										3.0				
0430										3.1				
0600														
0730	3.4										3.2	3.3	3.3	3.4
0900	3.5										3.3	3.4	3.4	3.3
1030														3.3
1200			3.4											3.2
1330		3.5	3.5											
1500		3.4				3.5							3.4	3.2
1630						3.4							3.5	3.1
1800						3.3				3.1			3.5	
1930						3.2				3.2			3.4	
2100						3.2						3.4	3.3	3.1
2230						3.1						3.3		3.2
2400	3.5	3.4	3.4	3.5	3.5	3.1	3.1	3.1	3.1	3.2	3.3	3.3	3.3	3.2

LAKE MICHIGAN, STATION 40, 90 m. continued.

DATE	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
TIME														
0130	3.2	3.2	3.0	3.3	3.3	3.1	3.0	3.0	2.9	2.9	3.0	3.0	3.1	3.0
0300					3.2		3.0		2.9	3.0	3.0			
0430		3.2					2.9		2.8		2.9	3.0		3.0
0600		3.1				3.1		3.0	3.7		2.8	3.1		2.9
0730		3.1				3.0	2.9	3.1	2.7		2.9			
0900		3.2		3.3			3.0	3.2	2.6		2.9			
1030				3.4			3.1			3.0	3.0	3.1		
1200		3.2			3.2		3.1			3.1	3.0	3.0	3.1	
1330		3.1	3.0		3.1	3.0	3.2				2.9	2.9	3.2	
1500			3.1			3.1	3.1	3.2			2.9		3.2	
1630						3.0	3.0	3.1	2.6		3.0		3.1	
1800		3.1				2.9		3.0	2.7		2.9	2.9		2.9
1930		3.0	3.1					3.0		3.1		3.0	3.1	2.8
2100			3.2	3.4		2.9	3.0	2.9			2.9		3.0	2.7
2230			3.3	3.3		3.0	2.9	2.7	2.7		3.0			
2400	3.2	3.0	3.3	3.3	3.1	3.0	3.0	2.7	2.8	3.0	3.0	3.0	3.0	2.7

DATE	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23
TIME														
0130	2.7	2.9	3.1	3.1	3.1	3.2	3.0	3.0	2.7	2.7	2.7	2.8	2.4	3.1
0300	2.7									2.7	2.7	2.7	2.3	
0430	2.8							3.0		2.8	2.6		2.3	
0600							3.0	2.9	2.7			2.7	2.4	3.1
0730							3.1		2.8			2.8	2.5	3.0
0900	2.8								2.8			2.9	2.6	3.0
1030	2.9							2.9	2.7	2.8		2.9	2.7	2.9
1200								2.8	2.6	2.9		2.6	2.7	2.9
1330		2.9					3.1				2.7		2.8	2.8
1500		3.0					3.0	2.8					2.9	
1630								2.7					3.0	
1800						3.2						2.7	3.1	
1930					3.1	3.1			2.6	2.9	2.7		3.2	
2100					3.2	3.1		2.7	2.7	2.8	2.8		3.2	
2230						3.0		2.8	2.6	2.8		2.7	3.1	
2400	2.9	3.1	3.1	3.1	3.2	3.0	3.0	2.7	2.6	2.7	2.8	2.5	3.1	2.8

DATE	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6
TIME														
0130	2.8	2.7	3.0	3.0	2.9	3.0	2.7	2.9	2.6	2.7	2.7	3.0	2.7	2.5
0300		2.8					2.8	2.8		2.8	2.8	3.0		
0430		2.9					2.8	2.7		2.8	2.8	2.9		
0600							2.9		2.6	2.7	2.9			
0730							2.9		2.7		3.0			
0900		2.9					3.0						2.9	2.7
1030	2.7	2.8		3.0		3.0						2.8	2.6	
1200	2.7	2.7		2.9		2.9	3.0	2.7					2.5	
1330	2.6	2.7					2.9	2.6				2.8		
1500	2.6	2.8				2.9	2.9	2.6		2.7		2.7		
1630	2.7	2.9	3.0			2.8	3.0	2.7		2.6				
1800	2.8		2.9											
1930	2.7													
2100	2.7		2.9		2.9			2.7					2.5	
2230	2.6		3.0		3.0	2.8	3.0	2.6		2.6			2.6	
2400	2.6	2.9	3.0	2.9	3.0	2.7	2.9	2.6	2.7	2.7	3.0	2.7	2.5	2.5

LAKE MICHIGAN, STATION 40, 90 m. continued.

DATE TIME	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20
0130	2.5	2.6	2.6	2.6	2.6	2.6	2.7	2.3	2.2	2.3	2.5	2.5		
0300		2.6	2.7			2.7		2.4		2.4				
0430		2.7						2.4	2.2					
0600							2.7	2.3	2.3	2.4				
0730		2.7	2.7			2.7	2.6	2.3	2.3	2.5				
0900		2.6	2.6			2.6	2.6	2.2	2.4					
1030	2.5		2.5			2.5	2.5							
1200	2.4					2.4						2.5		
1330						2.3						2.6		
1500			2.5					2.2	2.4					
1630			2.6		2.6		2.5	2.3	2.3				2.6	
1800		2.6	2.5		2.5	2.3	2.4	2.3					End of	
1930		2.7	2.6		2.5	2.4	2.4	2.2					Record.	
2100	2.4	2.7			2.4	2.6	2.3							
2230	2.5	2.8			2.4	2.7								
2400	2.5	2.6	2.6	2.6	2.5	2.7	2.3	2.2	2.3	2.5	2.5			

LAKE MICHIGAN - STATION 40, Depth 120 m.

Start 3 December 1963, 1130 CST; end 19 April 1964, 1552 CST.

Instrument serial no. 288, Film record 20,210. Initial cal. +1.0°C, Final cal. +0.2°C.

DATE TIME	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16
0130		3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2
0300														
0430														
0600														
0730														
0900						3.2								
1030						3.3								
1200	3.2		3.2											
1330			3.3											
1500														
1630														
1800														
1930			3.3									3.3		
2100			3.2									3.2		
2230														
2400	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2

LAKE MICHIGAN, STATION 40, 120 m. continued.

DATE TIME	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30
0130	3.2	3.5	3.4	3.4	3.5	3.4	3.5	3.4	3.5	3.6	3.6	3.7	4.3	3.9
0300													4.3	
0430								3.4					4.4	
0600				3.4				3.5					4.4	3.9
0730				3.5	3.5								4.5	3.8
0900					3.4								4.6	3.7
1030	3.2												4.6	3.6
1200	4.6												4.5	3.6
1330	5.1												4.0	3.5
1500	4.8								3.5		3.6	3.7		
1630	4.0								3.6		3.7	3.8		
1800	3.8											3.9		3.5
1930	3.7	3.5					3.5					4.0		3.6
2100	3.6	3.4					3.4					4.0		
2230	3.5											4.1		
2400	3.5	3.4	3.4	3.5	3.4	3.4	3.4	3.5	3.6	3.6	3.6	4.2	4.0	3.6
DATE TIME	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13
0130	3.6	3.8	3.9	3.8	3.9	3.6	4.0	3.9	3.7	4.0	4.0	4.1	4.0	4.0
0300							4.0							
0430							4.1	3.9		4.0	4.0			
0600								3.8		4.1	4.1			
0730											4.1			
0900		3.8									4.0			
1030		3.9			3.9	3.6								
1200	3.6				3.8	3.7	4.1							
1330	3.7				3.8		4.0	3.8		4.1		4.1		
1500	3.7				3.7			3.9		4.0	4.0	4.0		
1630	3.8				3.7						4.1			
1800					3.6									
1930			3.9					3.9	3.7					
2100			3.8					3.8	3.8					
2230						3.7			3.9					
2400	3.8	3.9	3.8	3.8	3.6	3.9	4.0	3.8	3.9	4.0	4.1	4.0	4.0	4.0
DATE	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	21-7
0130	4.0	4.1	4.0	3.5	3.7	3.9	4.0	3.8	3.9	3.8	3.9	3.9	3.9	3.9
0300														
0430														
0600					3.7									
0730		4.1			3.8									
0900		4.0												
1030					3.8									
1200					3.9									
1330										3.8				
1500										3.9				
1630	4.0		4.0	3.5				4.0						
1800	4.1		3.9	3.6						3.9				
1930			3.8	3.6	3.9			3.9						
2100			3.7	3.8	3.8	3.9				3.8				
2230			3.6	3.8	3.8	4.0				3.9				
2400			3.5	3.9	3.9		3.9							
2400	4.1	4.0	3.5	3.7	3.9	4.0	3.8	3.8	3.9	3.9	3.9	3.9	3.9	3.9

LAKE MICHIGAN, STATION 40, 120 m. continued.

DATE	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10
TIME														
0130	3.9	3.9	3.9	4.0	4.2	4.2	4.2	4.2	4.2	3.9	3.9	3.9	3.9	3.9
0300									4.1					
0430									4.0					3.9
0600									3.9					4.0
0730														
0900			3.9											4.0
1030			4.0											3.9
1200				4.0										
1330			4.0	4.1										
1500			4.1											
1630							4.2							
1800			4.1				4.3							
1930			4.0				4.3							
2100							4.2							
2230														
2400	3.9	3.9	4.0	4.1	4.2	4.2	4.2	4.2	3.9	3.9	3.9	3.9	3.9	3.9
DATE	2-11	2-12	2-13	2-14	2-15	2-16	3-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24
TIME														
0130	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.0	4.0	4.0	3.9	3.9	3.9	3.9
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330										4.0				3.9
1500										3.9				3.8
1630							3.9							
1800							4.0							
1930														
2100														
2230														
2400	3.9	3.9	3.9	3.9	3.9	3.9	4.0	4.0	4.0	3.9	3.9	3.9	3.9	3.8
DATE	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
TIME														
0130	3.9	3.9	3.9	3.9	3.8	3.8	3.8	3.9	3.9	3.9	3.9	3.9	3.2	3.2
0300														
0430														
0600												3.9		
0730												3.8		
0900							3.8					3.8		
1030							3.9					3.7		
1200												3.7		
1330			3.9									3.6		
1500			3.8									3.6		
1630												3.5		
1800			3.8									3.4		
1930			3.9									3.3		
2100												3.2		
2230														
2400	3.9	3.9	3.9	3.9	3.8	3.8	3.9	3.9	3.9	3.9	3.9	3.2	3.2	3.2

LAKE MICHIGAN, STATION 40, 120 m. continued.

DATE	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23
TIME														
0130	3.2	3.2	3.2	3.2	3.2	3.1	3.0	3.1	3.0	3.1	3.1	3.1	3.0	3.1
0300														
0430														
0600														
0730							3.0						3.0	3.1
0900					3.2		3.1		3.0				3.1	3.0
1030					3.1				3.1					
1200													3.1	
1330								3.1					3.0	
1500								3.0				3.1		
1630								3.0				3.0		
1800								3.1						
1930						3.1		3.1						
2100						3.0		3.0					3.0	
2230													3.1	
2400	3.2	3.2	3.2	3.2	3.1	3.0	3.1	3.0	3.1	3.1	3.1	3.0	3.1	3.0
DATE	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6
TIME														
0130	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9	3.0	3.0	3.0	3.0	3.0	3.0
0300														
0430														
0600														
0730				3.0				2.9						
0900				3.1				3.0						
1030														
1200														
1330														
1500				3.1										
1630				3.0										
1800														
1930														
2100														
2230														
2400	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
DATE	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20
TIME														
0130	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500													3.0	
1630													End of	
1800													Record.	
1930														
2100														
2230														
2400	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0			

LAKE MICHIGAN - STATION 40, Depth 150 m.

Start 3 December 1963, 1130 CST; End 19 April 1963, 1552 CST.

Instrument serial no. 272, Film record 20,211. Initial cal. +0.5°C, final cal. 0°C.

DATE TIME	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16
0130		4.0	4.0	4.0	3.9	3.9	3.9	3.9	4.0	3.9	4.0	4.0	4.0	4.0
0300													4.0	
0430							3.9						4.1	
0600							4.0						4.2	
0730		4.0	4.0		3.9					3.9			4.2	
0900		3.9	3.9		4.0					4.0			4.3	4.0
1030														4.1
1200	4.0										4.0			
1330					4.0						4.1		4.3	
1500	4.0				3.9			3.9			4.0		4.1	
1630	3.9							4.0					4.2	
1800														4.2
1930		3.9	3.9	4.0			4.0						4.1	4.1
2100		4.0	4.0	3.9		3.9	3.9				4.0		4.0	4.2
2230						4.0					4.1			
2400	3.9	4.0	4.0	3.9	3.9	4.0	3.9	4.0	4.0	4.0	4.1	4.0	4.0	4.2

DATE TIME	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30
0130	4.2	4.1	4.1	4.0	4.1	4.1	4.4	4.0	4.2	4.1	4.0	4.1	4.1	4.2
0300		4.1	4.2		4.1	4.0	4.4		4.3			4.1	4.0	4.2
0430		4.2	4.1		4.2		4.5		4.5	4.1	4.0	4.0		4.3
0600			4.2		4.3				4.3	4.2	4.1			4.4
0730		4.2	4.2		4.4				4.2	4.1			4.0	4.5
0900	4.2	4.0	4.1		4.3	4.0	4.5			4.0			4.1	4.4
1030	4.3			4.0	4.2	4.1	4.3		4.2				4.2	
1200	4.3			4.1	4.1	4.2	4.3		4.1	4.0		4.0	4.1	4.4
1330	4.4			4.4	4.1	4.2	4.2		4.0	4.1		4.1	4.0	4.6
1500	4.5		4.1	4.3	4.0	4.1					4.1		4.1	4.8
1630	4.4		4.0			4.2				4.1	4.0			4.9
1800	4.3			4.3		4.3				4.0			4.1	4.8
1930	4.1			4.2		4.4	4.3	4.0					4.2	4.8
2100	4.0			4.0			4.1	4.1					4.1	4.9
2230	4.0			4.0			4.0	4.0	4.0					5.0
2400	4.1	4.0	4.0	4.1	4.0	4.4	4.0	4.1	4.1	4.0	4.0	4.1	4.1	5.1

DATE TIME	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13
0130	5.1	5.0	4.1	4.2	4.3	4.3	4.2	4.1	4.9	4.3	4.1	4.2	4.7	4.4
0300		5.0	4.0	4.1		4.3	4.2		4.9	4.2		4.3		4.2
0430	5.1	4.9	4.1	4.2	4.3	4.4	4.1		4.8	4.1		4.4		4.1
0600	5.0				4.2	4.5			4.7			4.5		
0730	4.9	4.9				4.7			4.5			4.6		
0900		4.5			4.2	4.7			4.3			4.7		
1030		4.4			4.3	4.6			4.2			4.8		
1200	4.9		4.1	4.2	4.3					4.1				
1330	5.0		4.2	4.3	4.2	4.6		4.1		4.2				
1500			4.3	4.3	4.3	4.5	4.1	4.2	4.2					
1630			4.4	4.2	4.2		4.2		4.3	4.2				
1800				4.3		4.5				4.1				
1930		4.4	4.4	4.2		4.4	4.2	4.2	4.3					
2100		4.2	4.2	4.2	4.2		4.1	4.6	4.4				4.7	
2230		4.2	4.2	4.3	4.3	4.4		4.9				4.8	4.6	
2400	5.0	4.1	4.3	4.3	4.3	4.3	4.1	5.0	4.4	4.1	4.1	4.7	4.5	4.1

LAKE MICHIGAN, STATION 40, 150 m. continued.

DATE TIME	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27
0130	4.1	4.0	4.2	3.9	3.9	3.9	3.7	3.8	3.7	3.7	3.8	3.8	3.7	3.5
0300	4.2		4.1											
0430			4.2											
0600			4.2		3.9		3.7			3.7				
0730			4.1		3.8		3.6			3.8			3.7	
0900			4.0				3.5						3.6	
1030			3.9					3.8						
1200						3.9		3.7						
1330						3.8								
1500					3.8		3.6	3.7						
1630					3.9		3.8	3.8						
1800						3.8								
1930						3.7								
2100	4.2	4.0										3.8	3.6	
2230	4.1	4.1										3.7	3.5	
2400	4.0	4.2	3.9	3.9	3.9	3.7	3.8	3.8	3.7	3.8	3.8	3.7	3.5	3.5
DATE TIME	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10
0130	3.5	3.5	3.4	3.4	3.5	3.6	3.6	3.6	3.6	3.5	3.4	3.3	3.3	3.0
0300						3.6								
0430		3.5				3.5								
0600		3.4	3.4											
0730		3.4	3.3				3.6							
0900		3.3					3.5							
1030				3.4		3.5		3.6						
1200				3.5		3.6		3.5	3.6					
1330					3.5			3.6	3.5					3.0
1500					3.6								3.3	3.1
1630								3.6	3.5	3.5			3.2	3.1
1800					3.6			3.7	3.6	3.4			3.1	3.2
1930					3.7		3.5	3.6					3.0	
2100		3.3	3.3		3.6		3.6		3.6					3.2
2230		3.4	3.4						3.5		3.4			3.1
2400	3.5	3.4	3.4	3.5	3.6	3.6	3.6	3.6	3.5	3.4	3.3	3.3	3.0	3.1
DATE TIME	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24
0130	3.1	3.2	3.3	3.1	3.1	3.1	3.1	3.2	3.1	3.1	3.2	3.0	3.1	3.1
0300							3.2		3.1	3.2				
0430		3.2							3.2					3.1
0600	3.1	3.3												3.0
0730	3.2					3.1	3.0							3.1
0900					3.1									3.1
1030					3.2									3.2
1200					3.2									
1330					3.3				3.2					3.2
1500									3.1					3.3
1630														
1800					3.3						3.2			
1930					3.2						3.1			
2100					3.2	3.0								
2230			3.3		3.1	3.1						3.2		
2400	3.2	3.3	3.1	3.1	3.1	3.1	3.2	3.2	3.1	3.2	3.1	3.1	3.1	3.3

LAKE MICHIGAN, STATION 40, 1 0 m. continued.

DATE	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
TIME														
0130	3.3	3.4	2.8	3.0	3.1	3.1	3.1	3.1	3.0	2.8	2.8	2.7	2.8	3.0
0300	3.3		2.9				3.1	3.0				2.7	2.9	
0430	3.2	3.4	3.0				3.0	3.1		2.8		2.6		
0600		3.3	3.1				3.1			2.7				
0730	3.2		3.0						3.0	2.8				
0900	3.3	3.3							2.9		2.9	2.6	2.9	
1030		3.1						3.1				2.7	3.0	
1200		3.0			3.1			3.0						
1330				3.0	3.0					2.8				
1500				3.1						2.7		2.7		
1630										2.7		2.8		
1800					3.0					2.8	2.9	2.9		
1930	3.3				3.1				2.9		2.8			
2100	3.4								2.8	2.8		2.9	3.0	
2230		3.0								2.7		2.8	2.9	
2400	3.4	2.9	3.0	3.1	3.1	3.1	3.1	3.0	2.8	2.7	2.8	2.8	2.9	3.0
DATE	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23
TIME														
0130	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.8	2.7	3.0	3.0	2.9	2.9
0300							3.0	2.9	2.7	2.7		2.9		
0430								2.8	2.8	2.8		3.0		
0600								2.9	2.9					
0730								2.8	2.8					
0900									2.9					
1030														
1200										2.9		2.9		
1330										3.0				
1500							3.0		2.8					
1630							2.9	2.9	2.9					2.9
1800								2.8	2.8					2.8
1930						3.0		2.9						
2100						2.9		2.9						
2230								2.8	2.8					
2400	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.8	2.7	3.0	3.0	2.9	2.9	2.8
DATE	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6
TIME														
0130	2.8	2.9	2.9	2.9	2.9	2.7	2.8	2.7	2.5	2.5	2.9	2.6	2.5	2.5
0300	2.8		3.0		2.9		2.8	2.6			2.9	2.5		2.5
0430	2.9	2.9			2.8		2.7	2.5			2.7			2.6
0600		2.8									2.8			2.5
0730							2.7				2.7		2.5	
0900							2.8			2.5			2.6	
1030			3.0							2.4				
1200	2.9		2.9							2.5	2.7			
1330	3.0									2.6	2.8			
1500										2.6	2.7		2.6	
1630										2.7	2.6		2.5	
1800			2.9		2.8					2.8				
1930	3.0	2.8	3.0		2.7	2.7				2.6				
2100	2.9	2.9				2.8	2.8			2.8	2.7			
2230	2.8						2.7			2.9	2.6			
2400	2.8	2.9	3.0	2.9	2.7	2.8	2.7	2.5	2.5	2.9	2.6	2.5	2.5	2.5

LAKE MICHIGAN, STATION 40, 150 m. continued.

DATE TIME	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20
0130	2.5	2.5	2.4	2.5	2.4	2.5	2.6	2.7	2.7	2.7	2.7	2.8	2.7	
0300						2.4								
0430				2.5										
0600				2.6			2.6							
0730		2.5		2.6			2.7							
0900		2.4		2.5					2.7					
1030				2.4					2.8					
1200														
1330				2.4					2.8		2.7			
1500				2.3					2.7		2.8			
1630					2.4	2.4							2.7	
1800					2.5	2.5		2.7						End of
1930						2.5		2.8						Record.
2100			2.4	2.3		2.6								
2230			2.5	2.4		2.6						2.8		
2400	2.5	2.4	2.5	2.4	2.5	2.7	2.7	2.8	2.7	2.7	2.8	2.7		

LAKE MICHIGAN - STATION 40, Depth 180 m.

Start 3 December 1963, 1130 CST; end 19 April 1964, 1552 CST.

Instrument serial no. 248, Film record 20,212. Initial cal. 0°C, final cal. 0°C.

DATE TIME	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16
0130		3.2	3.1	3.2	3.2	3.2	3.1	3.1	3.2	3.1	3.1	3.1	3.2	3.2
0300								3.1						
0430								3.0						
0600		3.2			3.2								3.2	
0730		3.1	3.1		3.1								3.1	
0900			3.2											
1030														
1200	3.0								3.2			3.1		
1330	3.2								3.1			3.2		
1500								3.0						
1630			3.2					3.1						
1800			3.1											
1930			3.1											
2100			3.2		3.1			3.1						
2230					3.2			3.2						
2400	3.2	3.1	3.2	3.2	3.2	3.2	3.1	3.2	3.1	3.1	3.1	3.2	3.1	3.2

LAKE MICHIGAN, STATION 40, 180 m. continued.

DATE	12-17	21-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30
TIME														
0130	3.2	3.1	3.2	3.2	3.2	3.3	3.2	3.2	3.2	3.2	3.4	3.4	3.3	3.5
0300	3.2							3.2		3.2				
0430	3.1							3.3		3.3				
0600										3.4			3.3	
0730										3.4			3.4	
0900							3.2			3.5			3.4	
1030							3.1						3.5	3.5
1200					3.2									3.6
1330					3.3									3.6
1500														3.7
1630														
1800		3.1												
1930		3.2					3.1					3.4		
2100						3.3	3.2					3.3		3.7
2230						3.2								3.6
2400	3.1	3.2	3.2	3.2	3.3	3.2	3.2	3.3	3.2	3.5	3.4	3.3	3.5	3.5

DATE	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13
TIME														
0130	3.4	3.6	3.4	3.5	3.4	3.3	3.3	3.5	3.4	3.5	3.5	3.5	3.4	3.4
0300							3.3							
0430							3.4							
0600									3.4					
0730									3.5					
0900														
1030											3.5			
1200		3.6									3.6			
1330		3.5									3.7			
1500	3.4			3.5			3.5				3.6			
1630	3.5	3.5		3.4	3.4		3.4	3.4						
1800		3.4			3.3		3.5							
1930												3.6	3.5	
2100	3.5		3.4									3.5	3.4	
2230	3.6		3.5											
2400	3.6	3.4	3.5	3.4	3.3	3.3	3.5	3.4	3.4	3.5	3.5	3.4	3.4	3.4

DATE	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27
TIME														
0130	3.4	3.4	3.3	3.5	3.4	3.5	3.5	3.5	3.5	3.5	3.7	3.8	4.0	4.2
0300	3.4											3.8		
0430	3.5											3.9		
0600	3.5	3.4				3.5						3.9		4.2
0730	3.6	3.3				3.4						4.0		4.1
0900														
1030			3.3	3.5										
1200			3.4	3.4									4.0	
1330			3.4										4.1	
1500			3.5		3.4									
1630					3.5	3.4								
1800	3.6					3.5				3.5			4.1	
1930	3.5									3.6			4.2	
2100	3.5									3.6				
2230	3.4									3.7				
2400	3.4	3.3	3.5	3.4	3.5	3.5	3.5	3.5	3.5	3.7	3.7	4.0	4.2	4.1

LAKE MICHIGAN, STATION 40, 180 m. continued.

DATE	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10
TIME														
0130	4.0	3.9	3.7	3.8		3.7	3.8	3.7	3.9	3.8	3.7	3.7	3.7	4.0
0300				3.8		3.7	3.8	3.7						
0430				3.7		3.6	3.7	3.8						
0600	4.0	3.9												
0730	3.9	3.7				3.6								
0900		3.7				3.7								
1030		3.6				3.7				3.8			3.7	
1200						3.8				3.7			3.8	
1330										3.7			3.9	
1500		3.6								3.8			3.9	4.0
1630		3.5											4.0	3.9
1800		3.5	3.7		3.8				3.9				4.0	
1930		3.6	3.8	3.7	3.7				3.8				4.1	
2100		3.6		3.8				3.8		3.8				
2230		3.7						3.9		3.7				
2400	3.9	3.7	3.8	3.8	3.7	3.8	3.7	3.9	3.8	3.7	3.7	3.7	4.1	3.9
DATE	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24
TIME														
0130	3.9	3.9	3.9	3.9	3.9	3.9	4.1	4.1	4.0	3.9	3.9	3.9	3.7	3.5
0300						3.9	4.1							
0430						4.0	4.0							
0600														
0730														
0900					3.9			4.1					3.7	
1030					3.8			4.0					3.6	
1200						4.0								
1330						4.1								
1500					3.8				4.0		3.9		3.6	
1630					3.9				3.9		3.8		3.5	
1800														
1930														
2100							4.0					3.9		
2230							4.1					3.8		
2400	3.9	3.9	3.9	3.9	3.9	4.1	4.1	4.0	3.9	3.9	3.8	3.8	3.5	3.5
DATE	2-25	2-26	2-27	2-28	2-29	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9
TIME														
0130	3.5	3.6	3.4	3.3	3.3	3.3	3.3	3.2	3.2	3.1	3.1	3.1	3.1	3.1
0300	3.5													
0430	3.6													
0600		3.6												
0730		3.5												
0900									3.2					
1030							3.3		3.1					
1200							3.2							
1330														
1500														
1630														
1800			3.4											
1930			3.3											
2100		3.5												
2230		3.4												
2400	3.6	3.4	3.3	3.3	3.3	3.3	3.2	3.2	3.1	3.1	3.1	3.1	3.1	3.1

LAKE MICHIGAN, STATION 40, 180 m. continued.

DATE	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23
TIME														
0130	3.1	3.1	3.1	3.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.0	3.0
0300													3.0	
0430													3.1	
0600										3.1				
0730										3.0				
0900				3.2									3.1	
1030				3.1									3.0	
1200														
1330														
1500										3.0				
1630										3.1				
1800				3.1										
1930				3.2										
2100												3.1		
2230												3.0		
2400	3.1	3.1	3.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.0	3.0	3.0
DATE	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6
TIME														
0130	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
DATE	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20
TIME														
0130	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.9	2.9	
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500									3.0				2.9	
1630									2.9				End of	
1800													Record.	
1930														
2100														
2230														
2400	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.9	2.9		

LAKE HURON DATA

Figure 2 shows the locations of the Great Lakes-Illinois River Basins Project bouy stations on Lake Huron that have winter temperature data from the 1965-66 season. Stations H-4, H-5, H-6, H-7, H-8, and H-9 were occupied for the winter season. Table 2 presents the station latitude, longitude, and water depth for each station.

TABLE 2. Temperature recording stations, Lake Huron.

Station	Latitude	Longitude	Depth
H-4	44°20.5'N	83°15.1'W	64
H-5	44°39.6'N	83°12.4'W	58
H-6	44°39.2'N	83°11.3'W	78
H-7	44°40.1'N	83°11.3'W	78
H-8	45°09.1'N	83°07.0'W	175
H-9	45°38.8'N	83°11.2'W	119

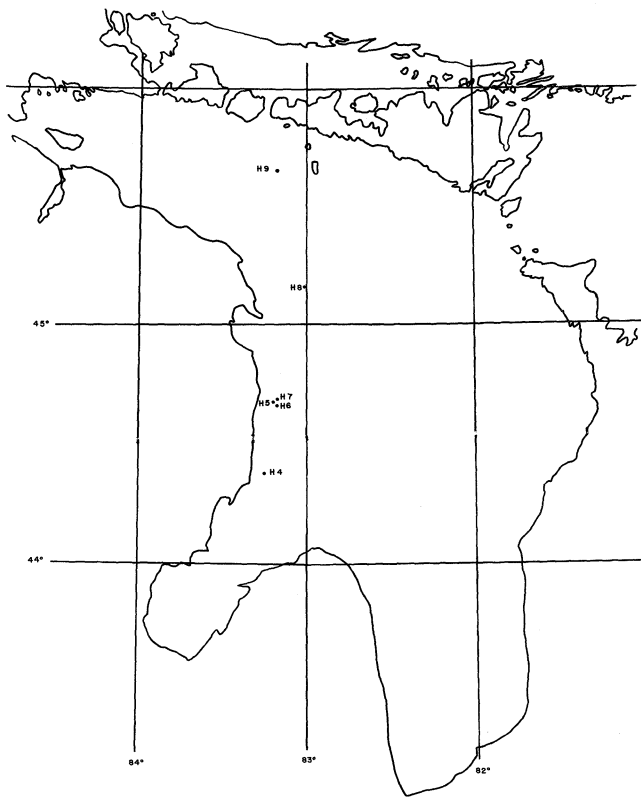


FIG. 2. U. S. Public Health Service temperature stations in Lake Huron.

LAKE HURON - STATION H-4, Depth 10 m.

Start 27 October 1965, 1800 EST; end 16 April 1966, 1633 EST.

Instrument serial no. 264. Initial cal. Indet., final cal. -0.5°C.

DATE	10-27	10-28	10-29	10-30	10-31	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9
TIME														
0130		8.7	8.5	8.3	8.5	8.3	8.4	8.4	8.4	8.4	8.3	8.4	8.3	8.1
0300														
0430														
0600					8.5									8.1
0730			8.5	8.3	8.4									8.0
0900		8.7	8.4	8.4								8.4		
1030		8.6				8.3						8.3		
1200						8.4				8.4				
1330										8.3			8.3	8.0
1500		8.6	8.4	8.4	8.4								8.2	8.1
1630		8.5	8.3	8.5	8.3									
1800	8.8										8.3			
1930											8.4			8.1
2100														8.2
2230														
2400	8.8	8.5	8.3	8.5	8.3	8.4	8.4	8.4	8.4	8.3	8.4	8.3	8.2	8.2
DATE	11-10	11-11	11-12	11-13	11-14	11-15	11-16	11-17	11-18	11-19	11-20	11-21	11-22	11-23
TIME														
0130	8.2	8.2	8.2	8.0	8.0	7.8	7.8	7.8	7.1	7.1	7.1	7.1	7.1	7.1
0300											7.1			
0430								7.8	7.1		7.0			7.1
0600								7.7	7.0					7.0
0730								7.5						
0900								7.2			7.0			
1030								7.0			7.1			
1200			8.2					7.1						
1330			8.1											
1500														
1630									7.0					
1800									7.1					
1930					8.0									
2100					7.9									
2230			8.1											
2400	8.2	8.2	8.0	8.0	7.9	7.8	7.8	7.1	7.1	7.1	7.1	7.1	7.2	7.1
DATE	11-24	11-25	11-26	11-27	11-28	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7
TIME														
0130	7.0	6.4	6.4	6.3	6.3	6.0	5.8	5.8	5.4	5.0	4.8	4.1	4.1	4.3
0300	7.0						5.8	5.7	5.2		4.8		4.1	4.3
0430	6.8	6.4					5.9	5.6	5.0		4.7		4.3	4.5
0600	6.6	6.3						5.5	4.8		4.6			
0730	6.4	6.4			6.3		5.9				4.5		4.3	
0900	6.4	6.5			6.2		6.0				4.4		4.2	
1030	6.3								4.8		4.3		4.1	4.5
1200	6.4								4.7	5.0	4.2		4.0	4.4
1330					6.2				4.6	4.9	4.1		3.5	
1500					6.1				4.5	4.8	4.0		3.9	
1630									4.0		4.2		4.0	
1800									4.0				4.2	4.4
1930						6.0			4.5				4.4	4.3
2100						5.9			5.0				4.5	
2230					6.1	5.9		5.5			4.2		4.4	4.3
2400	6.4	6.5	6.4	6.3	6.0	5.8	6.0	5.4	5.0	4.8	4.1	4.1	4.2	4.2

LAKE HURON, STATION H-4, 10 m. continued.

DATE	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21
TIME														
0130	4.2	3.2	3.1	3.5	3.5	4.0	3.8	4.1	4.0	4.0	4.0	3.9	3.9	3.9
0300	4.0						4.0							3.8
0430	3.9		3.1		3.5		4.0							
0600	3.5		3.2		3.9		4.1							
0730	3.2		3.3		4.0							3.9		
0900												3.8		
1030														
1200														
1330														
1500			3.3				4.1							
1630			3.4				4.0							
1800						4.0						3.8		
1930						3.9		4.1			4.0	3.9		
2100						3.8		4.0			3.9			
2230		3.2	3.4											
2400	3.2	3.1	3.5	3.5	4.0	3.8	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.8

DATE	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4
TIME														
0130	3.8	3.8	3.8	3.8	2.8	2.8	2.5	2.4	2.0	2.1	2.2	2.1	2.2	2.2
0300					2.7			2.3						
0430					2.6			2.2						
0600					2.7			2.1						
0730						2.8		2.0						
0900						2.7	2.5		2.0	2.1				
1030					2.7		2.4		2.1	2.2				
1200					2.8									
1330														
1500				3.8										
1630				3.7		2.7								2.2
1800				3.5		2.6								2.3
1930				3.2		2.5								2.4
2100				3.0										2.5
2230											2.2			
2400	3.8	3.8	3.8	3.0	2.8	2.5	2.4	2.0	2.1	2.2	2.1	2.1	2.2	2.5

DATE	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18
TIME														
0130	2.4	2.4	2.2	2.0	1.3	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1
0300				2.0				1.2						
0430				1.9										
0600				1.7										
0730				1.6										
0900				1.5	1.3									
1030		2.4		1.3	1.2									
1200		2.3						1.2						
1330		2.2						1.1						
1500					1.1									
1630														
1800							1.1							
1930							1.0	1.2		1.1				
2100								1.1		1.0				
2230			2.2		1.1									
2400	2.4	2.2	2.0	1.3	1.0	1.1	1.0	1.1	1.1	1.0	1.1	1.1	1.1	1.1

LAKE HURON, STATION H-4, 10 m. continued.

<u>DATE</u>	<u>1-19</u>	<u>1-20</u>	<u>1-21</u>	<u>1-22</u>	<u>1-23</u>	<u>1-24</u>	<u>1-25</u>	<u>1-26</u>	<u>1-27</u>	<u>1-28</u>	<u>1-29</u>	<u>1-30</u>	<u>1-31</u>	<u>2-1</u>
TIME														
0130	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
<u>DATE</u>	<u>2-2</u>	<u>2-3</u>	<u>2-4</u>	<u>2-5</u>	<u>2-6</u>	<u>2-7</u>	<u>2-8</u>	<u>2-9</u>	<u>2-10</u>	<u>2-11</u>	<u>2-12</u>	<u>2-13</u>	<u>2-14</u>	<u>2-15</u>
TIME														
0130	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
<u>DATE</u>	<u>2-16</u>	<u>2-17</u>	<u>2-18</u>	<u>2-19</u>	<u>2-20</u>	<u>2-21</u>	<u>2-22</u>	<u>2-23</u>	<u>2-24</u>	<u>2-25</u>	<u>2-26</u>	<u>2-27</u>	<u>2-28</u>	<u>3-1</u>
TIME														
0130	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

LAKE HURON, STATION H-4, 10 m. continued.

DATE TIME	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15
0130	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
DATE TIME	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29
0130	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.6	1.5	1.5	1.5
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630											1.6			
1800										1.2	1.5			
1930										1.6				
2100										1.7				
2230										1.6				
2400	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.6	1.5	1.5	1.5	1.5
DATE TIME	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12
0130	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.8	1.8	1.8	1.8
0300														
0430														
0600											1.8			
0730											1.9			
0900														
1030										1.5				
1200										1.6				
1330														
1500														
1630										1.6				
1800										1.7				
1930										1.7	1.9			
2100										1.8	1.8			
2230														
2400	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.8	1.8	1.8	1.8	1.8

LAKE HURON, STATION H-4, 10 m. continued.

DATE	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20	4-21	4-22	4-23	4-24	4-25	4-26
TIME														
0130	2.0													
0300														
0430														
0600														
0730	2.0													
0900	Tape ran out.													
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400														

LAKE HURON - STATION H-4, Depth 15 m.

Start 27 October 1965, 1711 EST; end 16 April 1966, 1633 EST.

Instrument serial no. 341. Initial cal. Indet., final cal. -0.2°C.

DATE	10-27	10-28	10-29	10-30	10-31	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9
TIME														
0130		8.9	8.4	7.9	8.1	8.0	8.1	8.1	8.0	7.8	8.3	8.4	8.3	8.0
0300				7.8		8.1	8.1	8.0	8.0	7.7			8.3	7.9
0430				7.9		8.2	8.0		8.1	7.8			8.1	
0600		8.9		8.0	8.1	8.3	8.1	8.0		7.9				7.9
0730		8.8	8.4		8.2			7.6	8.1	7.9				8.0
0900		8.8	8.3	8.0			8.1	7.9	8.2	8.0		8.4	8.1	
1030		8.7	8.3	7.9			8.0					8.3	8.2	
1200		8.6	8.2	7.9				7.9		8.0				8.0
1330		8.3	8.3	7.8	8.2	8.3	8.0	8.0		8.1			8.2	7.9
1500		8.3	8.3	7.9	8.3	8.2	8.1			8.2			8.3	7.7
1630		8.4	8.2	8.0	8.0				8.2					7.8
1800	8.9	8.5	8.2						8.3	8.2	8.3		8.3	7.9
1930			8.1	8.0			8.1		8.3	8.3	8.4		8.2	8.0
2100		8.5	8.2	8.1		8.2	8.2		8.1				8.2	
2230		8.4	8.1			8.1	8.2		7.8				8.1	8.0
2400	8.9	8.4	8.1	8.1	8.0	8.1	8.1	8.0	7.7	8.3	8.4	8.3	8.0	8.1

LAKE HURON, STATION H-4, 15 m. continued.

DATE TIME	11-10	11-11	11-12	11-13	11-14	11-15	11-16	11-17	11-18	11-19	11-20	11-21	11-22	11-23
0130	8.0	8.0	7.9	7.7	7.8	7.0	7.1	7.2	6.5	6.5	6.4	7.0	5.8	6.9
0300			8.0	7.5	7.8				6.6		6.5		5.9	6.8
0430				7.5	7.7	7.0			6.7	6.5	6.4	7.0	6.0	6.7
0600				7.6		7.1		7.2	6.8	6.4	6.2	6.8		6.6
0730				7.7		7.0		7.1		6.4	6.3		6.0	6.6
0900						7.1		7.0	6.8	6.5	6.3		6.1	6.5
1030		8.0		7.7		7.2		7.0	6.7		6.5	6.8	6.7	6.2
1200		7.9		7.8		7.3		6.6	6.7	6.5	6.8	6.5	6.8	6.0
1330					7.7	7.2		6.3	6.6	6.4	6.8	6.3	6.9	
1500		7.9			7.6			6.7	6.5		6.9	6.1		
1630		7.8				7.2	7.1	6.8	6.6			6.1		6.0
1800		7.8				7.1	7.2	6.8	6.7			6.0		6.1
1930		7.7		7.8	7.6			6.7	6.6					6.6
2100		7.8	8.0	7.9	7.5			6.5	6.5			6.0		6.7
2230		7.9	7.9		7.4			6.5				5.8		
2400	8.0	7.9	7.7	7.9	7.3	7.1	7.2	6.4	6.5	6.4	6.9	5.8	6.9	6.7

DATE TIME	11-24	11-25	11-26	11-27	11-28	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7
0130	6.8	5.9	6.0	5.7	5.8	5.5	5.3	5.5	5.0	3.5	4.5	3.5	3.3	4.1
0300				5.8	5.7	5.5	5.3	5.5	4.9	3.8		3.4	3.3	4.2
0430	6.8			5.8		5.4	5.2	5.4	4.8	4.1		3.1	3.4	4.3
0600	6.7	5.9		5.9			5.1	5.3	4.7	4.6		3.0	3.5	4.1
0730	6.3	5.8						5.0	4.6	4.7		3.2	3.6	3.8
0900	6.0	5.7	6.0				5.1	4.8	4.4	4.8		3.4	3.7	3.8
1030	5.9	5.6	5.9				5.2	4.6	4.3	4.8			3.8	3.7
1200	5.8	5.8					5.4	4.5	4.0	4.9			4.0	4.0
1330	5.8	6.0			5.7	5.4	5.5	4.7	3.8	4.9			4.1	4.0
1500	5.7	6.1			5.6	5.3	5.6	4.8		5.0	4.5	3.4	3.7	4.1
1630	5.6		5.9	5.9	5.6		5.6		3.8	5.0	4.4	3.2	3.3	4.2
1800	5.6		5.8	5.8	5.5		5.7		3.7	4.8	4.3	3.1	3.0	
1930	5.7		5.7					4.8	3.6	4.4	4.2		2.6	
2100	5.7		5.7					4.9	3.3	3.8	3.4	3.1	3.0	
2230	5.8		5.8					5.0	3.4	3.8	3.0	3.2	3.5	4.2
2400	5.9	6.1	5.8	5.8	5.5	5.3	5.7	5.0	3.0	4.2	3.8	3.3	4.0	4.1

DATE TIME	12-8	12-9	12-10	12-11	12-12	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21
0130	4.0	2.8	2.4	3.0	3.0	4.0	4.0	4.0	4.0	4.0	3.9	3.4	2.8	3.0
0300	3.7						4.0		4.0		3.9		2.9	
0430	3.9						3.6		3.9		3.8	3.4	3.0	
0600	3.8				3.0		3.2		3.8		3.8	3.3		
0730	3.5						3.1		3.7		3.7			3.0
0900	3.2		2.4		3.0		3.2		3.8		3.7	3.3		2.9
1030	2.9		2.5		3.1		3.7				3.6	3.2		
1200	2.6				3.3		4.0		3.8		3.5			
1330	2.4	2.8	2.5		3.7		4.1		3.9			3.2		2.9
1500	2.3	2.6	2.6		3.9		4.2				3.5	3.1		2.8
1630	2.5	2.5	2.7		4.0		4.4		3.9		3.4	3.0		
1800	2.6		2.8				4.4		4.0			3.0		
1930	2.7	2.5	2.9			4.0	4.3					2.9		2.8
2100	2.8	2.4	3.0			3.9	4.2			4.0		2.9		2.7
2230						4.0	4.2			3.9		2.8		
2400	2.8	2.4	3.0	3.0	4.0	4.0	4.1	4.0	4.0	3.9	3.4	2.7	3.0	2.7

LAKE HURON, STATION H-4, 15 m. continued.

DATE	12-22	12-23	12-24	12-25	12-26	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4
TIME														
0130	2.7	2.8	2.9	3.0	2.4	2.0	1.7	1.5	1.0	1.8	1.6	1.5	1.7	2.0
0300	2.8		2.9		2.3		1.7	1.6	1.2	1.7	1.7		1.8	
0430			3.0		2.0		1.8	1.5	1.4	1.7	1.8		1.9	
0600	2.8	2.8					1.9	1.5	1.4	1.6			1.9	
0730	2.9	2.9			2.0		1.8	1.4	1.3	1.5		1.5	2.0	
0900	3.0			3.0	1.9		1.9	1.4	1.1	1.5		1.4		2.0
1030				2.8	1.7		1.8	1.3	1.0	1.4		1.5		1.9
1200				2.7	1.5		1.8	1.2	1.1	1.4				1.9
1330				2.6	1.5		1.7	1.0	1.1	1.5	1.8			2.0
1500				2.8	1.6		1.6	0.9	1.2	1.6	1.7	1.5		2.0
1630	3.0			2.9	1.7	2.0	1.5	0.7	1.3	1.5	1.6	1.6		1.9
1800	2.9			3.0	1.8	1.9	1.5	0.6	1.5					1.8
1930	2.9			3.0	1.9	1.9	1.6	0.5	1.6					
2100	2.8			2.8	2.0	1.8	1.7	0.8	1.7					1.8
2230				2.6		1.7		0.9			1.6			1.9
2400	2.8	2.9	3.0	2.5	2.0	1.6	1.7	0.9	1.7	1.5	1.5	1.6	2.0	2.0

DATE	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18
TIME														
0130	2.0	2.1	2.3	1.6	0.1	0.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0300	2.0		2.0	1.6			0.6							
0430	2.3	2.1	2.0	1.5			0.5							
0600	2.4	2.2	1.9	1.4	0.1		0.3							
0730	2.4	2.3		1.3	0.2		0.1							
0900	2.3	2.2	1.9	1.1	0.3		0.0							
1030	2.4		1.8	1.0	0.4									
1200					0.5									
1330	2.4		1.8	1.0	0.5	0.1								
1500	2.3		1.7	0.8	0.4	0.9								
1630	2.3		1.6	0.3	0.3	1.0		0.0						
1800	2.2	2.2		0.1	0.2	1.0	0.0	0.1						
1930	2.2	2.3		0.0	0.2	0.9	0.1	0.1						
2100	2.1				0.1	0.8	0.0	0.2						
2230				0.0	0.1			0.1						
2400	2.1	2.3	1.6	0.1	0.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

DATE	1-19	1-20	1-21	1-22	1-23	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1
TIME														
0130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LAKE HURON, STATION H-4, 15 m. continued.

DATE	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15
TIME														
0130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DATE	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	3-1
TIME														
0130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DATE	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15
TIME														
0130	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0300														
0430														
0600													0.0	
0730						0.1							0.1	
0900						0.0								
1030														0.1
1200														0.2
1330														
1500														
1630														
1800														
1930														
2100														
2230														0.2
2400	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3

LAKE HURON, STATION H-4, 15 m. continued.

DATE TIME	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29
0130	0.2	0.2	0.3	0.5	0.8	0.8	0.5	0.6	0.9	0.9	1.0	0.9	0.6	0.9
0300							0.6		0.8		1.2	0.9		1.0
0430								0.6			1.5	0.8	0.6	
0600						0.8	0.6	0.7			1.6		0.8	
0730	0.2					0.7	0.7	0.7			1.5	0.8	0.7	
0900	0.1						0.7	0.8	0.8	0.9	1.1	0.7		
1030						0.7	0.6	0.9	0.9	0.8	1.0		0.7	
1200		0.2				0.6	0.7	1.0	1.0				0.6	
1330		0.1	0.3	0.5		0.5	0.7	1.0					0.6	
1500			0.4	0.6			0.6	0.9					0.6	
1630				0.6		0.5	0.7						0.5	0.6
1800				0.7		0.4	0.6		1.0		1.0		0.7	
1930		0.1	0.4	0.8		0.4	0.7		0.9		0.9	0.5	0.8	
2100		0.2	0.5			0.5			0.9	0.8		0.6	0.8	
2230	0.1	0.2							0.8	0.9			0.9	
2400	0.2	0.3	0.5	0.8	0.8	0.5	0.7	0.9	0.8	0.9	0.9	0.6	0.9	1.0

DATE TIME	3-30	3-31	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12
0130	1.0	0.9	1.0	0.9	0.9	1.0	1.1	1.2	1.4	1.7	1.7	1.7	1.7	1.7
0300		1.0			0.9					1.7		1.8		
0430					1.0				1.4	1.6				
0600		1.0				1.0		1.2	1.5			1.8		
0730		0.9				1.1		1.3	1.6		1.7	1.7		
0900		0.8					1.1		1.4		1.8			
1030		0.9					1.2		1.5					
1200	1.0	0.9												
1330	0.9	0.8	1.0								1.8			1.7
1500		0.7	0.9								1.7			1.8
1630	0.9							1.3			1.8			1.8
1800	0.8	0.7	0.9					1.2	1.5		1.7	1.7		1.9
1930		0.8	0.8					1.2	1.6		1.8	1.6		
2100		0.9						1.3	1.7	1.6				1.9
2230		0.9						1.4		1.7		1.6		1.8
2400	0.8	1.0	0.8	0.9	1.0	1.1	1.2	1.4	1.7	1.7	1.7	1.7	1.7	1.8

DATE TIME	4-13	4-14	4-15	4-16	4-17	4-18	4-19	4-20	4-21	4-22	4-23	4-24	4-25	4-26
0130	1.7	1.9	2.0	2.0										
0300														
0430														
0600														
0730		1.9												
0900		2.0												
1030	1.7													
1200	1.8													
1330				2.0										
1500				2.1										
1630				2.1										
1800														
1930	1.8													
2100	1.9													
2230														
2400	1.9	2.0	2.0											

End of
Record.

LAKE HURON - STATION H-5, Depth 10 m.

Start 1 November 1965, 1208 EST; end 16 April 1966, 0920 EST.

Instrument serial no. 175. Initial cal. Indet., final cal. -0.6°C.

DATE	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11	11-12	11-13	11-14
TIME														
0130		6.0	6.0	6.0	5.8	6.0	5.9	6.0	6.0	6.0	6.0	6.0	5.9	5.9
0300					5.9							6.0		
0430					5.9							5.9		
0600					6.0									
0730														
0900										6.0				
1030							5.9			5.9				
1200	6.0					6.0	6.0							
1330						5.9								
1500						5.8		6.0						
1630						5.8		5.9						
1800						5.9		5.8						
1930				6.0				5.9						
2100				5.9						5.9				5.9
2230				5.8					5.9	6.0				5.8
2400	6.0	6.0	6.0	5.7	6.0	5.9	6.0	6.0	6.0	6.0	6.0	5.9	5.9	5.7

DATE	11-15	11-16	11-17	11-18	11-19	11-20	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28
TIME														
0130	5.6	5.7	5.3	5.5	5.5	5.0	5.0	4.9	4.9	4.0	4.0	3.9	4.0	4.0
0300	5.5		5.2						4.8			3.9		3.9
0430	5.5		5.1						4.6			4.0		
0600	5.6		5.0						4.5					
0730	5.6		4.6						4.0					
0900	5.7		4.2								4.0			
1030			4.2		5.5						3.9			3.9
1200			4.3		5.4									4.0
1330		5.7	4.7		5.3									
1500		5.6	4.9		5.1									
1630		5.5	4.9		5.0				4.0					
1800		5.4	5.1						3.9					
1930		5.3	5.4		5.0				3.9					
2100			5.4		5.1				4.0					
2230			5.5		5.0									
2400	5.7	5.3	5.5	5.5	5.0	5.0	5.0	4.9	4.0	4.0	3.9	4.0	4.0	4.0

DATE	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12
TIME														
0130	4.0	4.0	4.0	3.5	3.5	3.7	3.0	2.5	2.1	2.3	2.3	2.3	2.1	2.1
0300				3.4		3.6	3.0	2.3		2.2	2.2			
0430				3.3	3.5		2.9	2.2			2.1			2.1
0600				3.1	3.4		2.9	2.1						2.2
0730				3.2			2.8							
0900				3.3			2.8				2.1			2.2
1030				3.4		3.6	2.7				2.2			2.3
1200				3.5	3.4	3.5	2.7				2.3	2.3	2.1	
1330					3.5	3.3	2.6				2.4	2.2	2.2	2.3
1500					3.5	3.1	2.5					2.1	2.3	2.4
1630					3.6	3.0								
1800					3.7									
1930				3.5	3.8					2.2				2.4
2100				3.4	3.9					2.3	2.4		2.3	2.3
2230					3.9			2.1			2.3		2.2	
2400	4.0	4.0	4.0	3.4	3.8	3.0	2.5	2.1	2.2	2.3	2.3	2.1	2.1	2.3

LAKE HURON, STATION H-5, 10 m. continued.

DATE	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26
TIME														
0130	2.2	2.2	2.2	2.1	2.1	2.1	2.1	1.4	1.3	1.3	1.3	1.4	1.4	1.1
0300														
0430														
0600														
0730														
0900														
1030								1.4				1.4		
1200								1.3				1.3		
1330			2.2				2.1					1.3	1.4	
1500			2.1				2.0					1.4	1.3	
1630							1.9							
1800							1.8							
1930							1.7							
2100							1.6				1.3		1.3	
2230							1.5				1.4		1.2	
2400	2.2	2.2	2.1	2.1	2.1	2.1	1.4	1.3	1.3	1.3	1.4	1.4	1.1	1.1
DATE	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
TIME														
0130	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.3	0.3	0.3	0.3	0.2
0300														
0430														
0600														
0730									1.2					
0900									1.1					
1030									0.9					
1200									0.8					
1330									0.6				0.3	
1500									0.4				0.2	
1630									0.3					
1800														
1930														
2100														
2230														
2400	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.3	0.3	0.3	0.3	0.2	0.2
DATE	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23
TIME														
0130	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3

LAKE HURON, STATION H-5, 10 m. continued.

DATE TIME	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6
0130	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

DATE TIME	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20
0130	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
0300														
0430							0.3							
0600							0.4							
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4

DATE TIME	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5	3-6
0130	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4

LAKE HURON, STATION H-5, 10 m. continued.

DATE	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20
TIME														
0130	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
0300														
0430			0.4											
0600			0.5											
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
DATE	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3
TIME														
0130	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500												0.5		
1630												0.6		
1800														
1930														
2100														
2230														
2400	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6
DATE	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17
TIME														
0130	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6		

0.6
End of
Record.

LAKE HURON - STATION H-6, Depth 10 m.

Start 1 November 1965, 1240 EST, end 16 April 1966, 1100 EST.

Instrument serial no. 160. Initial cal. Indet., final cal. -0.1°C .

DATE TIME	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11	11-12	11-13	11-14
0130		7.9	7.9	7.9	7.4	7.8	7.8	7.8	7.6	7.2	7.0	7.0	7.0	7.0
0300					7.5	7.5		7.8	7.5					
0430					7.5	7.1		7.7						
0600					7.6	7.3			7.5	7.2				7.0
0730					7.7	7.3	7.8		7.4	7.1				7.1
0900					7.8	7.4	7.9	7.7	7.4			7.0		7.2
1030					7.8			7.8	7.3	7.1		6.9		7.3
1200				7.9	7.9	7.4			7.2	7.0				7.4
1330	7.9			7.8		7.5			7.2					7.2
1500						7.7			7.1					7.0
1630					7.9	7.8			7.0					
1800				7.8	8.0				7.0					
1930				7.7			7.9	7.8						
2100				7.0			7.8	7.7						
2230					8.0							6.9		7.0
2400	7.9	7.9	7.9	7.0	7.9	7.8	7.8	7.7	7.3	7.0	7.0	7.0	7.0	6.9

DATE TIME	11-15	11-16	11-17	11-18	11-19	11-20	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28
0130	6.8	7.0	6.5	7.3	7.0	5.9	5.6	5.7	5.8	5.5	5.0	5.2	5.7	5.3
0300			6.5	7.2	6.9		5.7	5.6		5.5	5.0	5.2		5.4
0430		7.0	6.7	7.1	6.8		5.8	5.6		5.6	5.1	5.3		5.6
0600		6.9	6.9	7.0	6.5			5.5		5.7	5.2	5.4	5.7	
0730			7.0		6.0		5.8	5.4		5.8	5.3	5.6	5.6	
0900		6.9	7.1		5.7		5.9			5.8		5.6		
1030		7.0	7.3		5.7	5.9	5.9			5.7		5.7		5.6
1200	6.8				6.0	5.8	5.8	5.4		5.6	5.3			5.4
1330	6.9					5.7	5.7	5.5	5.7	5.5	5.2			5.2
1500	6.9					5.6		5.5	5.6	5.3			5.6	5.2
1630	7.0				6.0	5.5		5.6	5.5	5.2			5.5	5.0
1800		7.0			5.8			5.7		5.1	5.2			
1930		6.9						5.8		5.0	5.1			
2100		6.8											5.5	
2230		6.7											5.4	
2400	7.0	6.6	7.3	7.0	5.8	5.5	5.7	5.8	5.5	5.0	5.1	5.7	5.4	5.0

DATE TIME	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12
0130	5.0	6.0	5.9	5.4	5.2	4.8	3.3	4.0	4.0	3.6	4.0	3.9	3.9	3.7
0300				5.5		4.3	3.3			3.5		3.8		3.6
0430						3.8	3.2		4.0	3.1		3.8		3.6
0600	5.0					3.7	3.2		4.1	3.3		3.7	3.9	3.5
0730	5.1		5.9	5.5			3.0	4.0		3.6		3.8	4.0	3.4
0900	5.3		5.8	5.4			3.1	3.8	4.1	3.8		3.9		
1030	5.5			5.3		3.7	3.2	3.5	4.0	3.9		3.9		
1200	5.7					3.6	3.3	3.5				4.0		
1330	5.8	6.0				3.5	3.3	3.6		3.9			4.0	
1500	5.9	5.9	5.8	5.3			3.5	3.6		4.0			3.9	
1630	6.0		5.7	5.2			3.7	3.7					3.9	
1800			5.5		5.2		3.9	3.8			4.0	4.0	3.8	3.4
1930			5.4		5.0			3.9			3.9	3.9		3.5
2100			5.0		4.9		3.9	3.9						
2230			5.0		4.8		4.0	4.0	4.0				3.8	
2400	6.0	5.9	5.1	5.2	4.8	3.5	4.0	4.0	3.8	4.0	3.9	3.9	3.7	3.5

LAKE HURON, STATION H-6, 10 m. continued.

DATE	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26
TIME														
0130	3.5	3.1	3.5	3.6	3.6	3.3	2.7	2.5	2.8	3.2	3.3	3.1	2.2	2.2
0300	3.4								2.8					
0430									2.9					
0600	3.4	3.1			3.6		2.7							
0730	3.3	3.2			3.7		2.6		2.9					2.2
0900									3.0					2.1
1030		3.2					2.6					3.1		2.1
1200	3.3	3.3	3.5		3.7		2.5					2.9		2.0
1330	3.2		3.6		3.6							2.9		
1500		3.3			3.6	3.3						2.8		
1630		3.4			3.5	3.2		2.5				2.6		
1800		3.4			3.4	3.1		2.6				2.5		
1930	3.2	3.5				3.0		2.7	3.0	3.2		2.4		
2100	3.1					3.0		2.8	3.1	3.3	3.3	2.3		
2230					3.4	2.9					3.2	2.2		
2400	3.1	3.5	3.6	3.6	3.3	2.8	2.5	2.8	3.1	3.3	3.2	2.2	2.2	2.0
DATE	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
TIME														
0130	2.0	2.7	2.8	2.9	2.2	2.5	2.5	2.3	2.2	2.2	2.2	2.0	1.6	1.5
0300		2.8			2.3					2.2				
0430					2.4					2.3			1.6	
0600					2.5								1.5	
0730					2.6		2.5					2.0		
0900	2.0		2.8		2.7		2.4					2.1		
1030	2.1	2.8	2.9		2.7		2.3	2.3			2.2			1.5
1200		2.7			2.6		2.2	2.2			2.1	2.1		1.6
1330	2.1				2.6					2.3	2.1	2.0		1.7
1500	2.2			2.9	2.5					2.2	2.0	2.0		1.8
1630	2.3			2.8				2.2				1.9		1.9
1800	2.4			2.6				2.1				1.8		1.8
1930	2.5			2.5				2.0				1.7		1.7
2100	2.6			2.4		2.2	2.1					1.6		1.6
2230	2.6			2.3		2.3	2.2							1.0
2400	2.7	2.7	2.9	2.2	2.5	2.5	2.3	2.2	2.2	2.2	2.0	1.6	1.5	0.9
DATE	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23
TIME														
0130	0.8	0.8	1.4	1.3	1.6	1.2	1.3	1.1	1.0	0.0	0.0	0.0	0.0	0.0
0300	0.7	1.0			1.5	1.1		1.2	1.0					
0430	0.7	1.1			1.4	1.0			0.8					
0600	0.6	1.2			1.2	1.0	1.3		0.6					
0730	0.5	1.3			1.1	1.1	1.2	1.2	0.5					
0900		1.4				1.3	1.1	1.3	0.4					
1030						1.5	1.0	1.5	0.2					
1200			1.4	1.3		1.6		1.5	0.2					
1330				1.4		1.5		1.6	0.1					
1500				1.4	1.1	1.4		1.5	0.0					
1630				1.5	1.2	1.2		1.4						
1800				1.6	1.3			1.3						
1930				1.7	1.4	1.2		1.2						
2100	0.5			1.6		1.3		1.0						
2230	0.6				1.4									
2400	0.7	1.4	1.3	1.6	1.3	1.3	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0

LAKE HURON, STATION H-6, 10 m. continued.

DATE	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6
TIME														
0130	0.0	0.0	0.0	0.0	0.0	0.7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
0300					0.1	0.7								
0430					0.2	0.6								
0600					0.3	0.6								
0730					0.3	0.5								
0900					0.4	0.4								
1030					0.5	0.3								
1200					0.6	0.2								
1330					0.7	0.1								
1500														
1630														
1800														
1930														
2100														
2230														
2400	0.0	0.0	0.0	0.0	0.7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
DATE	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20
TIME														
0130	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1
0300											0.0			
0430											0.1			
0600														0.1
0730								0.1						0.0
0900								0.0						
1030														
1200														
1330														
1500														
1630										0.1		0.0		
1800										0.0		0.1		
1930														
2100														
2230								0.0			0.1			
2400	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0
DATE	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5	3-6
TIME														
0130	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
0300														
0430			0.0											
0600			0.1							0.1				
0730										0.0				
0900														
1030	0.0				0.1									
1200	0.1	0.1			0.0									
1330		0.0												
1500														
1630										0.0				
1800							0.0			0.1				
1930							0.1							
2100														
2230														
2400	0.1	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

LAKE HURON, STATION H-6, 10 m. continued.

DATE	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20
TIME														
0130	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
0300									0.1					
0430														
0600							0.1							
0730	0.1					0.0	0.0							
0900	0.0					0.1								
1030														0.0
1200														0.1
1330					0.1									
1500					0.0									
1630														
1800														
1930	0.0													
2100	0.1													
2230														
2400	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1
DATE	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3
TIME														
0130	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.5	0.5	0.6
0300														0.8
0430														0.8
0600														0.9
0730											0.2			1.0
0900											0.3			
1030			0.1							0.1				
1200			0.0							0.2				
1330											0.3			
1500					0.0						0.4			
1630					0.1						0.4			
1800											0.5			1.0
1930														0.9
2100													0.5	
2230													0.6	
2400	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.5	0.5	0.6	0.9
DATE	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17
TIME														
0130	0.9	1.0	0.7	0.7	0.7	0.7	0.9	0.9	0.8	0.8	0.8	0.8	0.8	
0300		0.9												
0430		0.8												
0600		0.7						0.9						
0730								0.8						
0900					0.7									
1030					0.8									
1200						0.7							0.8	
1330	0.9				0.8	0.8								
1500	1.0				0.9	0.8								
1630						0.9								
1800														
1930														
2100					0.9									
2230					0.8									
2400	1.0	0.7	0.7	0.7	0.7	0.9	0.9	0.8	0.8	0.8	0.8	0.8		

LAKE HURON - STATION H-6, Depth 15 m.

Start 1 November 1965, 1240 EST, end 16 April 1966, 1100 EST.

Instrument serial no. 280. Initial cal. Indet., final cal. -2.0°C.

DATE	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11	11-12	11-13	11-14
TIME														
0130		8.9	8.8	8.5	8.5	8.2	8.6	8.6	8.4	7.8	7.9	7.7	7.7	7.8
0300			8.8	8.4				8.6	8.4	7.9				
0430			8.7	8.4				8.5	8.3	8.0				
0600			8.6	8.3		8.2		8.4	8.3					
0730			8.6	8.3		8.3			8.2					
0900			8.5	8.2	8.5									
1030				8.1	8.4	8.3			8.2					
1200				8.0		8.5			8.1		7.9			7.8
1330	8.9			8.0		8.5	8.6				7.8			7.9
1500				7.9		8.6	8.7							
1630		8.9		7.9	8.4		8.8		8.1					
1800		8.8		8.0	8.3			8.0			7.8			
1930				8.0	8.2						7.7			
2100				8.2	8.0		8.8			8.0			7.7	
2230				8.5	8.0		8.7		8.0	7.9			7.8	
2400	8.9	8.8	8.5	8.5	8.2	8.6	8.6	8.4	7.9	7.9	7.7	7.7	7.8	7.9

DATE	11-15	11-16	11-17	11-18	11-19	11-20	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28
TIME														
0130	7.9	8.0	7.7	7.9	7.8	8.0	8.0	7.0	6.9	6.4	6.5	6.5	6.4	6.0
0300			7.7		7.9			7.0				6.6	6.4	
0430		8.0	7.8		8.0			7.1	6.9			6.7	6.3	
0600	7.9	7.9						7.0	6.8			6.8		
0730	8.0	7.9	7.8					6.9	6.7	6.4	6.5			
0900		7.8	7.9	7.9					6.6	6.5	6.4		6.3	
1030		7.8	8.0	7.8					6.5		6.4		6.2	
1200		7.7		7.8		8.0			6.4		6.3			
1330		7.7		7.7		7.9	6.9				6.2	6.8		
1500				7.6		7.7	6.8	6.4		6.2	6.7			
1630				7.5		7.5		6.3		6.3	6.6	6.2		
1800				7.5		7.0	6.8			6.2	6.6	6.1		
1930			8.0	7.4			6.5	6.9	6.3		6.0	6.5		
2100			7.9	7.5			6.7		6.2		6.1	6.4	6.1	
2230				7.6			6.8		6.2		6.2		6.0	
2400	8.0	7.7	7.9	7.7	8.0	8.0	6.9	6.9	6.3	6.5	6.4	6.4	6.0	6.0

DATE	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12
TIME														
0130	6.0	6.2	6.4	6.2	5.6	6.6	7.0	6.8	6.1	6.1	6.1	4.5	4.0	5.0
0300	6.0	6.3		6.2		6.7			6.2			4.5		
0430	6.1	6.4		6.1	5.6	6.8			6.3		6.1	4.4		
0600		6.5		6.0	5.7	6.9	7.0				6.0		4.0	
0730				6.1	5.8		6.9				5.9		4.1	5.0
0900				6.2		6.9	6.9				5.8		4.2	4.9
1030	6.1			6.3		7.0	6.8	6.8			5.7	4.4	4.3	4.7
1200	6.0	6.5		6.3	5.8			6.7			5.6	4.3	4.5	4.5
1330		6.6		6.4	5.9			6.6	6.3		5.5		4.6	4.3
1500				6.3		7.0		6.5	6.2		5.5		4.8	4.3
1630		6.6		6.3		6.9		6.4			5.3		4.9	4.4
1800		6.5		6.2	5.9	6.9	6.8	6.3			4.8	4.3		4.5
1930		6.4		6.1	6.0	7.0	6.9	6.2			4.5	4.2		4.6
2100	6.0		6.4	6.0	6.1		6.8	6.0	6.2		4.5	4.1	4.9	4.7
2230	6.1		6.3	5.8	6.3			5.9	6.1		4.6	4.0	5.0	4.7
2400	6.1	6.4	6.3	5.6	6.5	7.0	6.8	6.0	6.1	6.1	4.6	4.0	5.0	4.8

LAKE HURON, STATION H-6, 15 m. continued.

DATE	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26
TIME														
0130	4.9	5.0	5.0	4.9	4.7	4.7	4.7	4.5	4.1	4.1	4.5	4.5	4.5	4.4
0300	5.0	4.9												4.3
0430		4.8		4.9	4.7	4.7	4.7							4.3
0600		4.7		4.8	4.8	4.8	4.6			4.1				4.2
0730		4.6			4.9		4.6			4.2				4.2
0900		4.5					4.5							4.1
1030		4.4			4.9									
1200		4.3			4.8			4.5	4.1					
1330		4.0		4.8	4.8			4.4	4.0	4.2				
1500		4.0		4.7	4.9			4.4		4.3				
1630		4.2						4.3						
1800		4.5						4.3						
1930		4.8		4.7				4.2						
2100		4.8		4.8						4.3				
2230		4.9			4.9					4.4				
2400	5.0	5.0	5.0	4.8	4.8	4.8	4.5	4.2	4.0	4.4	4.5	4.5	4.5	4.1
DATE	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
TIME														
0130	4.1	3.6	3.6	3.8	4.0	4.2	4.2	3.8	3.2	3.1	3.0	3.4	3.5	3.8
0300	4.0							3.8				3.4		
0430			3.6	3.8				3.7				3.5		
0600		3.6	3.7	3.9	4.0			3.6		3.1				3.8
0730		3.5			4.1		4.2	3.5		3.0				3.9
0900	4.0						4.1	3.4					3.5	
1030	3.9		3.7				4.1	3.3					3.6	
1200			3.8				4.0	3.2		3.0				
1330	3.9							3.1		3.1			3.6	
1500	3.8				4.1			3.0			3.0		3.7	
1630					4.2				3.2		3.1			
1800								3.0	3.1		3.2		3.7	
1930	3.8							3.2			3.2		3.8	
2100	3.7	3.5				4.0					3.3			
2230		3.6				3.9				3.1				
2400	3.7	3.6	3.8	3.9	4.2	4.2	3.9	3.2	3.1	3.0	3.3	3.5	3.8	3.9
DATE	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23
TIME														
0130	3.9	3.4	3.4	3.4	3.6	3.2	3.2	3.2	3.2	3.2	3.0	2.6	2.5	2.3
0300		3.5								3.2		2.6		2.4
0430	3.9	3.6	3.4							3.1		2.5		2.5
0600	3.8	3.7	3.5		3.6									2.6
0730	3.7	3.8	3.5		3.5									2.7
0900	3.6	3.8	3.4											2.8
1030	3.5	3.7												3.0
1200	3.4	3.6								3.1				
1330	3.3	3.6		3.4	3.5					3.0				3.0
1500	3.3	3.5		3.5	3.4									2.8
1630	3.2	3.4												2.6
1800	3.1	3.3		3.5	3.4						3.0			2.5
1930				3.6	3.3						2.9			2.3
2100	3.1										2.8		2.5	2.0
2230	3.2										2.7		2.4	
2400	3.3	3.3	3.4	3.6	3.3	3.2	3.2	3.2	3.2	3.0	2.6	2.5	2.4	2.0

LAKE HURON, STATION H-6, 15 m. continued.

DATE TIME	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6
0130	2.0	2.2	2.6	2.7	2.9	2.0	2.0	2.3	2.0	2.5	1.9	1.9	1.9	1.9
0300		2.3			2.8		2.1	2.2		2.4				
0430		2.3		2.7			2.2			2.3				
0600		2.4		2.8		2.0	2.3	2.2		2.2				
0730				2.9	2.8	2.1	2.4	2.1	2.0	2.1				
0900				3.0	2.7		2.5	2.1	2.1	2.1				
1030	2.0				2.6			2.0	2.1	2.0				
1200	2.1				2.6				2.2					
1330					2.5		2.5		2.2					
1500	2.1	2.4			2.4		2.4		2.3					
1630	2.2	2.5			2.4		2.3		2.4	2.0				
1800	2.2				2.3		2.1		2.4	1.9				
1930	2.1	2.5			2.2	2.1	2.1		2.5					
2100		2.6			2.2	2.0	2.3							
2230					2.1									
2400	2.1	2.6	2.6	3.0	2.0	2.0	2.3	2.0	2.5	1.9	1.9	1.9	1.9	1.9

DATE TIME	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20
0130	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9

DATE TIME	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5	3-6
0130	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9

LAKE HURON, STATION H-6, 15 m. continued.

DATE	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20
TIME														
0130	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
DATE	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3
TIME														
0130	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
DATE	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17
TIME														
0130	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	
0300														
0430										1.9				
0600										1.8				
0730										1.8				
0900										1.9				
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9		

1.9
End of
Record.

LAKE HURON - STATION H-7, Depth 15 m.

Start 1 November 1965, 1322 EST, end 16 April 1966, 1205 EST.

Instrument serial no. 298. Initial cal. Indet., final cal. -0.6°C .

DATE	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11	11-12	11-13	11-14
TIME														
0130		7.5	7.5	7.0	7.5									
0300		7.6			7.6									
0430				7.0	7.6									
0600			7.5	6.5	7.7									
0730			7.4	6.1	7.7									
0900		7.6		6.1	Rest of record									
1030		7.5		6.8	Destroyed.									
1200			7.4	7.0										
1330			7.3	7.0										
1500			7.3	7.1										
1630	7.3		7.1	7.1										
1800			7.1	7.2										
1930			7.2	7.2										
2100			7.1	7.3										
2230	7.3			7.3										
2400	7.4	7.5	7.1	7.5										

LAKE HURON - STATION H-8, Depth 10 m.

Start 1 November 1965, 1808 EST, end 15 April 1966, 1120 EST.

Instrument serial no. 320. Initial cal. Indet., final cal. -0.8°C .

DATE	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11	11-12	11-13	11-14
TIME														
0130		7.6	7.4	7.4	7.2	7.1	7.1	7.1	7.1	7.1	7.1	7.1	6.7	6.7
0300			7.4									7.1	6.6	6.6
0430			7.5									7.0	6.5	
0600													6.5	
0730													6.6	
0900												7.0		
1030												6.9		
1200		7.6										6.8		
1330		7.5										6.7	6.6	6.6
1500												6.6	6.7	6.7
1630													6.7	6.8
1800	7.6												6.8	6.9
1930		7.5										6.6	6.8	
2100		7.4	7.5	7.4								6.7	6.9	
2230			7.4	7.3								6.9	6.9	
2400	7.6	7.4	7.4	7.3	7.2	7.1	7.1	7.1	7.1	7.1	7.1	6.9	6.8	6.9

LAKE HURON, STATION H-8, 10 m. continued.

DATE TIME	11-15	11-16	11-17	11-18	11-19	11-20	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28
0130	6.9	6.6	6.5	6.9	6.6	6.4	6.3	6.6	6.4	6.2	5.9	5.7	5.8	6.0
0300		6.5	6.6		6.5		6.4	6.5	6.4	6.2				
0430		6.4	6.6		6.6		6.5		6.3	6.1				
0600	6.9		6.7		6.7		6.6	6.5				5.7	5.8	
0730	6.8		6.8		6.8			6.4				5.8	5.7	
0900	6.7											5.8		6.0
1030	6.6				6.8				6.0	5.9		5.7		6.1
1200	6.6				6.7	6.4					5.8		5.7	
1330	6.7				6.6	6.3					5.8		5.8	
1500	6.7		6.8	6.9	6.5				6.3		5.7		5.9	
1630	6.6	6.4	6.9	6.8	6.6				6.2				6.0	
1800		6.5		6.8	6.5	6.3							6.1	
1930				6.7	6.4	6.2						5.7		
2100	6.6									6.0		5.8	6.1	
2230	6.7									5.9		5.9	6.0	
2400	6.7	6.5	6.9	6.7	6.4	6.2	6.6	6.4	6.2	5.9	5.7	5.9	6.0	6.1

DATE TIME	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12
0130	6.1	6.1	6.1	5.6	5.8	5.7	5.7	5.9	5.9	5.8	5.6	5.6	5.5	5.2
0300			6.1		5.8				5.9	5.8				5.2
0430			6.0		5.9				5.8	5.7				5.3
0600				5.6									5.5	
0730				5.7									5.6	5.3
0900				5.7	5.9			5.9				5.6		5.2
1030				5.8	5.8	5.7		5.8				5.7	5.6	5.2
1200			6.0		5.7	5.6							5.5	5.3
1330			5.9	5.8		5.6					5.6		5.4	5.4
1500			5.9	5.9		5.7					5.5		5.4	
1630			5.8				5.7				5.5		5.3	5.4
1800			5.7				5.8	5.8			5.4			5.3
1930			5.5	5.9			5.9	5.9						
2100			5.4	5.8								5.7	5.3	
2230			5.5									5.6	5.2	
2400	6.1	6.1	5.7	5.8	5.7	5.7	5.9	5.9	5.8	5.7	5.4	5.5	5.2	5.3

DATE TIME	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26
0130	5.3	5.1	5.2	5.1	5.1	5.1	5.0	4.9	5.0	4.9	4.8	4.1	4.2	4.1
0300			5.2				4.9						4.2	4.1
0430			5.1										4.1	4.2
0600								4.9		4.9		4.1		4.2
0730								5.0	5.0	5.0	4.8	4.3		4.3
0900					5.1		4.9		5.1	5.0	4.7			
1030					5.0		5.0			5.1	4.6			
1200											4.5	4.3		
1330	5.3										4.3	4.4		
1500	5.2										4.4			4.3
1630	5.2								5.1					4.4
1800	5.1							5.0	5.0	5.1	4.4			4.4
1930							5.0	5.1	5.0	5.0	4.1			4.5
2100		5.1					4.9		4.9	4.9		4.4		
2230		5.2								4.9		4.3		
2400	5.1	5.2	5.1	5.1	5.0	5.1	4.9	5.1	4.9	4.8	4.1	4.3	4.1	4.5

LAKE HURON, STATION H-8, 10 m. continued.

DATE	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
TIME														
0130	4.5	4.6	4.4	4.3	3.7	5.2	5.1	4.9	4.9	4.5	4.3	3.9	4.1	4.1
0300				4.5	3.5	5.4		5.0			4.2			
0430				4.6	3.4	5.3	5.1				4.1			
0600			4.4	4.9		5.3	5.0				4.0			4.1
0730			4.3	4.6	3.4	5.4					3.9	3.9		4.2
0900			4.2	4.1	3.6						4.0	3.8		
1030			4.0		3.8						3.9		4.1	
1200			3.8	4.1	4.0						3.8		4.0	
1330			3.7	4.0	5.2			5.0			3.8	3.8	3.8	
1500			3.8	3.8			5.0	4.9	4.9		3.7	3.9	3.5	
1630	4.5	4.6	3.9	3.9		5.4	4.9		4.8		3.7		3.3	
1800	4.6	4.5				5.3	4.8		4.8	4.5	3.8		3.3	4.2
1930		4.5	3.9		5.2				4.7	4.4		3.9	3.5	4.1
2100		4.4	3.8		5.3	5.3			4.7		3.8	4.0	3.7	
2230			3.9		5.1	5.2			4.6		3.9	4.1	3.8	
2400	4.6	4.4	4.1	3.9	5.1	5.1	4.8	4.9	4.5	4.4	3.9	4.1	4.1	4.1

DATE	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23
TIME														
0130	4.0	4.1	3.9	2.4	4.1	4.1	3.1	3.2	3.9	3.5	3.9	4.0	3.7	3.6
0300	3.9		3.8	2.3					4.0	3.1				
0430	3.7		3.7	2.4						2.9				
0600	3.5		3.6	2.6	4.1		3.1			2.6	3.9	4.0		
0730	3.4		3.5	2.7	4.0		2.9				3.6	3.9		
0900			3.4	2.9			2.8				3.1	3.8		
1030	3.4	4.1		3.1		4.1	2.6			2.6	2.6	3.7		
1200	3.8	3.7		3.6		4.0	2.4		4.0	3.0	2.6	3.5		
1330	4.0	3.4	3.4	4.0		3.9	2.1		4.1	3.2	2.6	3.3		3.6
1500	4.1	3.6	3.3	4.1	4.0	2.3				3.5	2.8	3.4	3.7	3.4
1630		3.4	3.2		4.1	2.1		3.2		3.8	3.1	3.5	3.5	3.2
1800	4.1	2.9	3.0			2.6		3.3	4.1	3.8	3.3	3.7	3.2	3.1
1930	4.2	3.0	2.9			3.1		3.5	3.5	3.9	3.6	3.8		2.8
2100	4.2	3.1	2.8				2.1	3.7	3.1		3.8	3.7	3.2	2.6
2230	4.1	3.4	2.6				3.0		3.6		4.0		3.4	3.5
2400	4.1	3.9	2.4	4.1	4.1	3.1	3.2	3.7	3.5	3.9	4.0	3.7	3.6	3.5

DATE	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6
TIME														
0130	3.2	2.0	3.6	2.4	2.3	1.8	3.4	1.1	1.1	3.1	1.5	1.1	1.1	0.9
0300	2.8	2.0		2.3	2.2	2.0	3.4				1.3	1.1		
0430	2.6	2.1			2.1	2.1	3.3				1.1	0.9		
0600	2.8		3.6		2.0	2.3	3.2				1.3		1.1	
0730	3.1		3.4		1.9	2.6	3.2		1.1		1.7	0.9	1.0	
0900	2.7		3.1	2.3	1.7	2.7	2.9		1.3		1.9	1.0	0.9	0.9
1030	2.6	2.1	2.8	2.1	1.5	2.8	2.6		1.5		2.1	1.1	1.0	1.0
1200	2.6	2.3	2.6	1.9	1.4	2.9	2.4		1.7			1.2	1.1	1.1
1330	2.5	2.6	2.5	2.1	1.3	3.1	2.0	1.1	2.1	3.1		1.3	1.0	0.9
1500	2.4	2.8	2.5		1.1		1.9	1.3	2.4	2.9			0.9	0.8
1630		3.2	2.7				2.1	1.6	2.6	2.7		1.3	0.8	0.6
1800		3.6	2.9			3.1	2.0	1.9	2.9	2.5		1.2	0.6	0.6
1930			3.1		1.1	3.2	1.7	2.1	3.0	2.2	2.1	1.2	0.8	0.8
2100	2.4		3.0		1.2	3.4	1.3	2.1	3.1	1.9	1.6	1.1		1.0
2230	2.3		2.9		1.4		1.1	1.7		1.7	1.1	1.0		1.1
2400	2.2	3.6	2.6	2.1	1.6	3.4	1.1	1.4	3.1	1.7	0.9	1.0	0.8	1.1

LAKE HURON, STATION H-8, 10 m. continued.

DATE	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20
TIME														
0130	1.2	1.5	1.5	2.2	1.4	0.1	2.1	0.8	0.5	1.0	0.8	0.3	0.8	1.1
0300	1.2	1.6		2.3	1.2		2.1	0.8	0.6			0.4	0.8	
0430	1.3	1.7		2.4	1.1	0.1	2.2	0.9	0.7			0.5	0.9	1.1
0600	1.2	1.8	1.5		0.8	0.2			0.6	1.0	0.8	0.6	0.9	0.9
0730	1.1	1.9	1.4		0.6	0.4		0.9	0.7	0.9	0.7	0.4	1.0	0.8
0900	1.0	1.7			0.4	0.6	2.2	1.0	0.8		0.5		1.1	0.6
1030	0.9	1.5			0.2	0.8	2.1	1.1			0.3			0.4
1200	1.0	1.3			0.4	0.8	1.8	0.9		0.9	0.2			0.3
1330	1.1	1.1			0.6	0.9	1.5	0.7		0.8	0.1	0.4	1.1	0.3
1500		1.1	1.4		0.6	1.0	1.1	0.6	0.8	0.7	0.4	0.5	1.2	0.2
1630		1.4	1.3	2.4	0.3	1.1	1.0	0.7	0.9	0.6	0.6	0.7	1.3	0.1
1800		1.6	1.2	2.0	0.2	1.1		0.8	0.9	0.5	0.9	0.8	1.5	
1930	1.1	1.5	1.4	1.8	0.1	1.4	1.0	0.9	1.0	0.4	0.6	0.9	1.6	
2100	1.2		1.6	1.6		1.8	0.9	1.0		0.5	0.1	0.9	1.5	
2230	1.3		1.8			2.0	0.8	0.9		0.6	0.6	0.8	1.4	
2400	1.4	1.5	2.1	1.6	0.1	2.1	0.8	0.6	1.0	0.8	0.2	0.7	1.2	0.1
DATE	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5	3-6
TIME														
0130	0.1	0.1	0.2	0.9	1.1	1.1	1.1	0.9	0.9	0.9	0.8	0.0	0.3	0.4
0300			0.2						0.9	0.9				0.3
0430			0.3						0.8	0.8	0.8	0.0		0.3
0600						1.1					0.7	0.1	0.3	0.2
0730		0.1	0.3			1.2			0.8		0.6		0.4	0.1
0900		0.2	0.4			1.3			0.7		0.5		0.4	
1030			0.5	0.9					0.7		0.4		0.5	
1200			0.6	1.0					0.6		0.3		0.6	
1330			0.6	1.0							0.2	0.1	0.6	
1500		0.2	0.7	0.9							0.2	0.2	0.4	
1630		0.1	0.8			1.3			0.6		0.1	0.3	0.1	
1800						1.2			0.7					0.1
1930						1.1	1.1		0.8				0.1	0.0
2100				0.9			1.0		0.8				0.6	
2230			0.8	1.0			0.9		0.9		0.1		0.6	
2400	0.1	0.1	0.9	1.1	1.1	1.1	0.9	0.9	0.9	0.8	0.0	0.3	0.5	0.0
DATE	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20
TIME														
0130	0.0	0.1	0.1	0.1	0.1	1.1	0.8	0.3	0.4	0.8	0.1	0.2	0.1	0.2
0300			0.1	0.2			0.7						0.1	
0430			0.2	0.2			0.6						0.2	
0600			0.3	0.1										
0730									0.4	0.8		0.2		
0900							0.6		0.5	0.7		0.1		
1030							0.6		0.6	0.6			0.2	
1200							0.5		0.7	0.5		0.1	0.1	
1330					0.1		0.4		0.8	0.4		0.2		
1500					0.2		0.3		0.8	0.3		0.2		0.2
1630			0.3		0.3				0.9			0.1		0.3
1800			0.2		0.5					0.3				0.4
1930			0.1		0.7	1.1	0.3			0.4			0.1	0.5
2100	0.0		0.0		0.8	1.0	0.2			0.6			0.2	0.6
2230	0.1				1.1	1.0	0.2	0.3	0.9	0.2				0.7
2400	0.1	0.1	0.0	0.1	1.1	0.9	0.3	0.4	0.8	0.1	0.1	0.1	0.2	0.8
														0.9

LAKE HURON, STATION H-8, 10 m. continued.

DATE	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3
TIME														
0130	0.9	1.1	0.8	0.6	0.8	1.1	0.7	0.7	0.7	0.7	0.8	0.3	0.6	0.6
0300										0.7	0.8			
0430										0.8	0.7			
0600					0.8									
0730			0.8		0.9									
0900			0.7		0.9									
1030			0.7		1.0									
1200			0.6	0.6	1.1							0.3		
1330	0.9	1.1	0.5	0.7		1.1	0.7					0.2		
1500	0.8	1.0	0.4			1.0	0.6			0.7				
1630	0.8	1.0	0.3			1.0				0.6	0.2			
1800	0.7	0.9				0.9						0.1		
1930			0.3			0.8					0.6	0.1		
2100	0.7		0.4			0.7					0.4	0.8		
2230	1.1		0.5								0.3	0.6		
2400	1.1	0.9	0.6	0.7	1.1	0.7	0.6	0.7	0.7	0.8	0.3	0.6	0.6	0.6
DATE	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17
TIME														
0130	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.0	1.0		
0300														
0430														
0600										1.1				
0730					0.6					1.0				
0900					0.7									
1030					0.8				0.6					
1200				0.6	0.9				0.7			1.0		
1330				0.7	0.8				0.7			End of		
1500				0.7	0.7				0.8			Record.		
1630				0.8	0.6									
1800														
1930									0.8					
2100				0.8					0.6					
2230				0.6					0.6					
2400	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.0	1.0			

LAKE HURON - STATION H-8, Depth 22 m.

Start 1 November 1965, 1808 EST, end 15 April 1966, 1120 EST.

Instrument serial no. 178. Initial cal. Indet., final cal. -0.7°C.

DATE	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11	11-12	11-13	11-14
TIME														
0130		6.9	6.8	6.8	6.8	6.5	6.5	6.5	6.4	6.0	6.0	5.8	5.8	5.6
0300									6.3	5.9				
0430					6.8				6.1		6.0			
0600					6.7				6.0		5.9			
0730					6.6						5.8			
0900					6.5					5.9	5.8			
1030										6.0	5.7			
1200											5.6			
1330														5.6
1500														5.4
1630		6.9											5.8	
1800	7.0	6.8									5.6		5.7	5.4
1930											5.7			5.3
2100											5.8			
2230														
2400	7.0	6.8	6.8	6.8	6.5	6.5	6.5	6.5	6.0	6.0	5.8	5.8	5.7	5.3

DATE	11-15	11-16	11-17	11-18	11-19	11-20	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28
TIME														
0130	5.3	5.2	5.4	5.5	5.3	5.3	5.3	5.4	5.4	5.3	5.2	5.1	5.1	5.1
0300					5.3									
0430		5.2			5.4									
0600		5.1			5.5									
0730		5.2	5.4											
0900		5.2	5.5											
1030	5.3	5.3	5.6		5.5						5.2			
1200	5.2	5.4			5.4						5.1			
1330			5.6		5.3									
1500			5.5		5.4									
1630					5.3									5.1
1800				5.5					5.4					5.0
1930				5.4					5.3	5.3				5.0
2100										5.2				4.9
2230				5.4										
2400	5.2	5.4	5.5	5.3	5.3	5.3	5.3	5.4	5.3	5.2	5.1	5.1	5.1	4.9

DATE	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12
TIME														
0130	4.9	4.9	4.9	4.6	4.6	4.6	4.6	4.6	4.1	4.2	4.0	4.1	4.1	4.3
0300										4.2				4.3
0430										4.1				4.2
0600								4.6		4.1				4.1
0730			4.9					4.4	4.1	3.9				
0900			4.8					4.2	4.2		4.0			
1030								4.1			4.1		4.1	
1200			4.8										4.2	
1330			4.7					4.1		3.9			4.2	
1500			4.7					4.2		4.0			4.3	4.1
1630			4.6											4.0
1800														4.0
1930														3.5
2100								4.2						
2230								4.1						3.5
2400	4.9	4.9	4.6	4.6	4.6	4.6	4.6	4.1	4.2	4.0	4.1	4.1	4.3	3.6

LAKE HURON, STATION H-8, 22 m. continued.

DATE	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26
TIME														
0130	3.7	3.6	4.2	4.8	5.0	4.9	4.7	4.4	4.2	3.6	3.7	3.7	4.1	4.2
0300		3.7	4.2	4.9		4.9				3.7				
0430	3.7	4.0	4.9	5.0		4.8		4.4						
0600	3.5	4.0	4.9					4.3				3.7		
0730	3.4	3.9	5.0					4.3				3.2	4.1	
0900	3.6	3.8	5.0					4.2					4.0	3.2
1030	4.0		5.1											3.7
1200	4.1													4.0
1330	4.2					4.8			4.2			3.2		
1500	4.3	3.8			5.0	4.7			3.9			3.6	4.0	
1630	4.3	3.7	5.1		4.9				3.7			3.7	3.9	
1800	4.1		5.0						3.8			3.7		
1930	4.0		4.9				4.7		3.9			3.9	3.9	
2100	4.1		4.8				4.6		3.7			4.0	3.8	
2230	3.5	3.7	4.8				4.5		3.5			4.1	3.7	
2400	3.5	4.1	4.6	5.0	4.9	4.7	4.4	4.2	3.6	3.7	3.7	4.1	3.4	4.0
DATE	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
TIME														
0130	4.0	3.2	2.9	3.4	3.8	3.8	3.0	3.1	3.3	3.3	3.3	3.3	3.4	3.3
0300			2.9	3.5			3.0		3.3	3.0	3.5	3.3		
0430		3.2	2.7	3.8			3.1		3.4	2.8	3.7	3.4		
0600		3.4	2.5	3.9		3.8	2.9		3.6	2.8		3.5		
0730						3.7	3.0			2.7			3.4	
0900		3.4	2.5			2.7			3.6				3.3	
1030		3.2	2.4			2.8			3.7			3.5		3.3
1200	4.0		2.4			2.9						3.4		3.0
1330	3.6		2.3			3.3			3.7					2.9
1500	3.2		2.4			3.2	3.0		3.8					2.7
1630	3.3		2.6	3.9			2.7		3.8					
1800	3.2		2.7	3.8		3.2	3.0		3.9	2.7				
1930	2.7	3.2	2.7			3.1	3.1		4.0	2.9	3.7			
2100	2.7	3.1	2.8			3.2		3.1		3.1	3.3			2.7
2230	2.9	3.1	2.9			3.1		3.2	4.0	3.2				2.8
2400	3.1	3.0	3.1	3.8	3.8	3.1	3.1	3.2	3.9	3.3	3.3	3.4	3.3	2.8
DATE	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23
TIME														
0130	2.9	2.2	2.2	2.1	3.2	2.0	1.5	2.3	3.0	1.7	1.9	1.5	1.0	1.3
0300	3.0		2.2	2.2		1.9	1.7	2.4		2.1	1.5	1.4		1.3
0430	3.1	2.2	2.1	2.3		1.8	1.9	2.6	3.0	2.2	1.5	1.4		1.1
0600	2.8	2.3	2.0	2.4		1.6	2.2	2.9	2.9		1.4	1.3		0.9
0730	2.7		1.8	2.6		1.3		3.0			1.4	1.3		1.4
0900			1.4	2.7	3.2	1.2				2.2	1.5	1.4		
1030	2.7		1.3	2.8	3.1		2.2			2.1	1.4			
1200	2.6			3.0	3.0		2.1			2.2	1.4			
1330				3.1	2.9		1.9		2.9	2.3	1.3	1.4		1.4
1500					2.7		1.7		2.8	2.3		1.3		1.5
1630	2.6				2.2		1.6		2.6	2.1	1.3	1.2		
1800	2.5						1.6		2.3	2.2	1.4	1.2	1.0	
1930	2.4		1.3	3.1			1.8		1.8	2.2		1.1	1.1	
2100	2.3		1.6	3.2	2.2		2.6		1.6	2.4	1.4	1.1	1.2	
2230			1.8		2.1	1.2	2.2		1.4	2.1	1.5	1.0	1.3	
2400	2.3	2.3	2.0	3.2	2.1	1.3	2.2	3.0	1.3	1.9	1.5	1.0	1.3	1.5

LAKE HURON, STATION H-8, 22 m. continued.

DATE	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6
TIME														
0130	1.6	2.2	2.0	2.0	2.4	0.6	0.4	1.9	1.4	1.1	0.5	0.9	0.8	1.0
0300	1.7	2.0	1.9	2.1		0.7	0.4	2.0		1.0	0.6			
0430		1.9	1.8	2.2		1.4	0.5	2.1		1.1	0.7		0.8	
0600			1.7	2.3		1.4		2.2		1.2			0.6	
0730		1.9	1.6	2.4		1.1	0.5	2.3	1.4			0.9	0.7	
0900		2.0	1.5			0.8	0.6		1.2			0.8	0.7	
1030		2.1				0.8	0.6	2.3		1.2	0.7	0.7	0.9	
1200		2.0			2.4	0.7	0.7	2.4		1.1	0.9	0.5		
1330		1.9			2.3	0.7	0.9			1.0			0.9	
1500		2.0			2.0	0.6	1.1			0.9			0.8	
1630		2.2	1.5			0.4	1.2					0.5	0.7	
1800			1.6		2.0		1.2		1.2			0.7	0.8	
1930	1.7		1.3		1.8		1.1	2.4	1.3	0.9		0.9	1.0	
2100	2.0		1.5		1.4		1.2	2.3	1.4	0.8			0.8	
2230	2.2	2.2	1.8		0.4		1.3	2.0	1.5	0.6		0.9	1.0	
2400	2.2	2.1	1.9	2.4	0.5	0.4	1.5	1.7	1.4	0.5	0.9	0.7	1.0	1.0
DATE	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20
TIME														
0130	1.0	1.2	1.4	0.5	0.5	0.5	1.0	1.0	1.4	1.9	1.7	1.5	1.3	1.3
0300		1.2	1.3					1.1		1.8				
0430		1.3	1.2	0.5				1.2		1.7				
0600			1.1	0.6				1.3		1.8	1.7			
0730		1.3	1.0	0.9				1.4	1.4	2.0	1.6			
0900		1.4	0.6	1.0					1.3	1.7				1.3
1030	1.0	1.4	0.5	0.8						2.0				1.2
1200	1.1	1.5		0.6	0.5					2.2	1.6			
1330		1.8	0.5		0.6			1.3	1.7	1.5	1.5			1.2
1500			0.6		0.7			1.7			1.4			1.1
1630			0.7		0.5			2.2			1.5			1.0
1800		1.8	0.9	0.6	0.6			2.4			1.6	1.4		
1930		1.7	0.9	0.5		0.5		2.3			1.5	1.3		
2100	1.1	1.7	0.7			0.7		2.1						
2230	1.2	1.6	0.5		0.6	0.8		2.0						1.0
2400	1.2	1.6	0.5	0.5	0.5	0.9	1.0	1.4	2.0	1.7	1.5	1.3	1.3	1.1
DATE	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5	3-6
TIME														
0130	1.2	1.0	0.8	0.1	0.5	0.3	0.5	0.1	0.4	0.3	0.5	0.4	0.9	1.4
0300			0.7	0.1		0.5	0.5		0.4	0.3	0.4	0.3	1.3	
0430			0.6	0.2		0.6	0.3		0.3	0.4	0.3		1.3	
0600			0.5	0.3			0.1			0.4	0.2		1.2	
0730				0.4					0.3	0.5			1.2	
0900			0.5						0.2			0.3	1.1	
1030	1.2		0.3								0.2	0.5	1.4	1.4
1200	1.1				0.5	0.6					0.3			1.5
1330	1.1				0.4	0.5					0.4		1.4	
1500	1.0				0.3						0.5	0.5	1.2	
1630					0.2							0.4		
1800			0.3											
1930			0.1	0.4								0.4	1.2	
2100		1.0		0.5				0.1				0.5	1.3	
2230		0.9						0.2				0.6	1.4	
2400	1.0	0.9	0.1	0.5	0.2	0.5	0.1	0.3	0.2	0.5	0.5	0.6	1.4	1.5

LAKE HURON, STATION H-8, 22 m. continued.

DATE	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20
TIME														
0130	1.5	1.2	0.6	0.6	1.1	0.9	0.6	0.4	0.5	0.6	0.6	1.1	1.1	1.3
0300		0.9			1.2	0.7				0.5				
0430		0.8			1.3	0.6							1.1	
0600		0.7					0.6						1.2	
0730							0.5	0.4						1.3
0900		0.7					0.4	0.5						1.2
1030	1.5	0.6						0.6		0.5			1.2	
1200	1.4									0.6		1.1	1.3	
1330									0.6			1.2		
1500					1.3								1.3	
1630					1.2			0.6					1.4	1.2
1800	1.4							0.5						1.1
1930	1.3			0.6	1.2									
2100				0.7	1.1						0.6	1.2		
2230	1.3			0.8	1.0						0.7	1.1	1.4	
2400	1.2	0.6	0.6	1.0	1.0	0.6	0.4	0.5	0.6	0.6	0.9	1.1	1.3	1.1
DATE	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3
TIME														
0130	1.1	0.9	1.0	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
0300		1.0	1.0		1.3	1.1								
0430			1.1		1.3	1.2								
0600					1.4									
0730														
0900														
1030														
1200	1.1													
1330	1.0													
1500	0.9													
1630	0.8				1.4									
1800					1.2									
1930					1.2									
2100				1.1	1.1									
2230				1.2										
2400	0.8	1.0	1.1	1.2	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
DATE	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17
TIME														
0130	1.1	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9		
0300														
0430														
0600														
0730														
0900														
1030														
1200	1.1		1.0									0.9		
1330	1.0		0.9									End of		
1500												Record.		
1630														
1800														
1930														
2100														
2230														
2400	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9			

LAKE HURON - STATION H-8, Depth 30 m.
 Start 1 November 1965, 1808 EST, end 15 April 1966, 1120 EST.
 Instrument serial no. 244. Initial cal. Indet., Final cal. -0.7°C.

DATE	11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11	11-12	11-13	11-14
TIME														
0130		7.1	6.9	6.9	7.0	6.8	6.8	6.9	6.7	6.1	6.1	6.0	6.1	6.0
0300									6.6			6.1		
0430		7.1		6.9	7.0				6.2					
0600		7.0		7.0	6.9				6.1					
0730					6.9						6.1			6.0
0900					6.8				6.1		5.9			5.9
1030					6.8				6.2		5.7			
1200					6.9				6.3					
1330									6.2					5.9
1500									6.1					5.8
1630														5.7
1800	7.1													5.6
1930							6.8				5.7			5.5
2100					6.9		6.9				5.8			
2230					6.8			6.9			5.9		6.1	5.5
2400	7.1	7.0	6.9	7.0	6.8	6.8	6.9	6.8	6.1	6.1	6.0	6.1	6.0	5.4
DATE	11-15	11-16	11-17	11-18	11-19	11-20	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28
TIME														
0130	5.4	5.3	5.5	5.9	5.5	5.5	5.4	5.4	5.3	5.3	5.3	5.2	5.1	5.1
0300					5.4									
0430	5.4				5.3									
0600	5.3										5.3			
0730				5.9				5.4			5.2			
0900			5.5	5.8				5.3						
1030			5.6		5.3	5.5								
1200			5.6		5.4	5.4								
1330			5.7		5.5							5.2		
1500		5.3	5.8		5.6							5.1		
1630		5.4		5.8	5.6									
1800				5.7	5.5									
1930					5.3									
2100					5.4									
2230		5.4	5.8	5.7	5.5									
2400	5.3	5.5	5.9	5.6	5.5	5.4	5.4	5.3	5.3	5.3	5.2	5.1	5.1	5.1
DATE	11-29	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12
TIME														
0130	5.2	5.1	5.0	5.0	5.0	5.0	5.1	5.0	4.2	4.6	4.3	4.4	4.4	4.5
0300						5.0	5.1	5.0	4.3	4.7				
0430						5.1	5.0	5.1		4.6				
0600	5.2									4.6				
0730	5.1									4.5				
0900								5.1		4.4				
1030		5.1						5.0		4.3				
1200		5.0						5.0	4.3	4.2	4.3		4.4	4.5
1330								4.4	4.4	4.1	4.4		4.5	4.4
1500								4.3						4.3
1630										4.1				4.2
1800										4.2				
1930														4.2
2100									4.4	4.2				4.1
2230									4.5	4.3				4.1
2400	5.1	5.0	5.0	5.0	5.0	5.1	5.0	4.3	4.5	4.3	4.4	4.4	4.5	3.7

LAKE HURON, STATION H-8, 30 m. continued.

DATE	12-13	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26
TIME														
0130	3.4	4.2	4.0	5.1	5.2	5.0	5.1	4.8	4.4	3.6	4.1	4.2	4.3	3.3
0300	3.4	3.7	4.2	5.1				4.7		3.9		4.2		
0430	3.5	3.7	4.2	5.0				4.7				4.1		
0600	3.7	3.9	4.6	5.0	5.2			4.6				3.8		
0730	3.8	4.2	4.7	5.1	5.1			4.5		3.9		3.3		3.3
0900	3.9		5.0	5.1	4.8			4.4		4.0		3.3		3.8
1030	4.0	4.2	5.2	5.2	4.5					4.1		3.4		4.1
1200	4.0	4.1			4.8				4.4			3.8		4.3
1330	3.7	3.9	5.2		5.0				4.3			4.0		
1500	3.7		5.3						4.3			4.2		
1630	4.2								3.8					
1800	4.5								3.8		4.1			
1930	4.6		5.3			5.0			4.0		4.2	4.2	4.3	
2100	4.6		5.2			5.1			4.2				4.2	
2230	4.4						5.1		3.9				3.9	
2400	4.2	3.9	5.2	5.2	5.0	5.1	5.0	4.4	3.3	4.1	4.2	4.3	3.4	4.3
DATE	12-27	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
TIME														
0130	4.3	3.8	2.7	4.2	4.2	3.8	3.3	3.2	4.1	2.8	4.1	3.8	3.5	3.1
0300			2.8			3.3							3.6	3.0
0430			2.8			3.3								3.0
0600		3.8	2.7			3.4			4.1			3.8		2.8
0730		3.4	2.5			3.5			4.2			3.7		2.8
0900		3.3	2.5	4.2		3.4				2.8	4.1			2.9
1030	4.3		2.6	4.1		3.3				2.9	4.0			
1200	4.2		2.7	4.1		3.2				3.0	3.4			
1330	3.3		2.8	4.2		3.2		3.2		3.2	3.3			2.9
1500	3.6	3.3	2.9			3.3	3.3	3.3	4.2	3.3				3.0
1630	3.2	3.2	3.1				3.2		3.8	3.3				3.1
1800	2.8		3.3				3.3	3.3	3.2	3.7	3.3			3.1
1930	2.8		3.8				3.2	3.4	3.0	3.9	3.8			2.9
2100	3.0	3.2	3.9		4.2			3.8	2.9	4.1		3.7		2.7
2230	3.3	3.1	4.0		4.1			4.0	2.8			3.5	3.6	2.6
2400	3.7	2.9	4.1	4.2	4.0	3.3	3.2	4.0	2.8	4.1	3.8	3.5	3.2	2.6
DATE	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23
TIME														
0130	2.5	2.4	1.5	3.2	2.3	1.8	2.8	3.3	1.7	2.6	1.9	1.2	1.4	1.9
0300		2.3			2.3	1.3	3.0		1.5	2.7			1.4	2.1
0430				3.2	2.2	1.3	3.1			2.3			1.3	
0600			1.5	3.3	2.2	1.4			1.5	2.1			1.4	
0730	2.5	2.3	1.8		2.1	1.6	3.1		2.3	2.2	1.9		1.6	2.1
0900	2.4	2.6	2.1		2.0	1.7	2.8	3.3	2.4	2.2	1.6			2.0
1030	2.3	2.6	2.3		1.9	2.0	2.8	2.2		1.8	1.4			2.0
1200	2.3	2.4	2.4		1.8	2.3	3.0	3.1	2.4	1.6	1.5		1.6	2.1
1330	2.2	2.3	2.6		1.6	2.4	3.1		2.5	1.7			1.7	2.2
1500	2.3	2.2	2.7	3.3	1.3		3.2			1.6	1.5			2.2
1630	2.3	2.2	2.8	3.4			3.3		2.5	1.4	1.4			2.1
1800	2.4	2.1	2.9		1.3				2.4		1.4		1.7	2.1
1930		1.9	3.0	3.4	1.2	2.4		3.1	2.5	1.4	1.3		1.9	2.2
2100		1.6	3.1	3.3	1.2	2.1		2.8	2.4	1.5	1.2	1.2		2.3
2230		1.5	3.1	3.0	1.3	2.0		2.4		1.6		1.4		2.4
2400	2.4	1.5	3.2	2.3	1.3	2.3	3.3	2.2	2.4	1.8	1.2	1.4	1.9	2.4

LAKE HURON, STATION H-8, 30 m. continued.

DATE TIME	1-24	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6
0130	2.2	2.0	2.4	2.7	1.4	1.3	2.5	1.2	1.3	1.3	0.5	1.0	1.3	1.3
0300	2.1	1.9	2.4	2.6	1.2	1.2			1.2		0.5	1.2		
0430	2.0	1.8	2.5			1.2		1.2	1.2		0.7	1.3		1.3
0600	2.1	1.9	2.6	2.6		1.3		1.3	1.1		0.9			1.4
0730	2.3	2.4	2.7	2.5		1.3		1.3	1.1					
0900	2.3		2.8	2.4	1.2	1.4	2.5	1.5	1.0		0.9			
1030	2.2			2.3	1.4	1.4	2.4	1.6	0.9		0.7			1.4
1200	2.2			2.3	1.3	1.3	1.9	1.7	0.5		0.8			1.7
1330	2.4			2.0	1.4	1.4	1.6	1.8	0.6		0.9	1.3		1.8
1500	2.4	2.4		1.4		1.5	1.4	1.6	0.7			1.2		1.8
1630	2.5	2.3		0.5		1.9		1.3	0.8			1.3		1.9
1800		2.2		1.3		2.3		1.4	0.9		0.9			2.0
1930	2.5			1.4		2.4	1.4							2.1
2100	2.4	2.2		1.4			1.3		1.0	1.3	1.0			2.1
2230	2.2	2.3	2.8	1.9			1.1	1.4	1.2	0.7				2.0
2400	2.1	2.3	2.7	1.9	1.4	2.4	1.0	1.3	1.2	0.6	1.3	1.3	1.3	1.9
DATE TIME	2-7	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20
0130	1.7	1.4	0.4	0.9	1.4	1.9	1.5	2.5	1.9	1.5	1.4	1.0	1.3	1.2
0300	1.6	1.4		1.2	1.5	1.6		2.6					1.2	
0430	1.5	1.2	0.4	1.6	1.4	1.7				1.5				
0600	1.5	1.3	0.5	1.8		1.7		2.6		1.4		1.0		
0730	1.4	1.3	0.6	1.5	1.4	1.6	1.5	2.5	1.9	1.3		1.1		
0900	1.3	1.4	0.7	1.3	1.8	1.5	1.7	2.3	2.0			1.2		1.2
1030	1.2		1.4	1.3	1.8		2.4	2.4	2.1	1.3		1.3		1.0
1200	1.1		1.4	1.1	1.4		2.7	2.3	1.9	1.4				0.8
1330	0.6		1.5	0.6			2.8	2.1	1.6					0.6
1500			1.6		1.4		2.8	2.0	1.5					0.5
1630	0.6		1.7		1.5	1.5	2.5							
1800	1.0		1.6	0.6	1.4	1.6	2.4							
1930	1.3	1.4	1.4	0.9			2.3				1.4			
2100		0.9		1.1		1.6	2.1				1.3			
2230		0.8		1.2		1.5	2.0				1.3			
2400	1.3	0.4	1.4	1.2	1.4	1.5	2.0	2.0	1.5	1.4	1.1	1.3	1.2	0.5
DATE TIME	2-21	2-22	2-23	2-24	2-25	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5	3-6
0130	0.4	0.5	0.4	0.6	0.4	0.4	0.5	0.5	0.6	1.5	1.7	1.5	0.9	0.5
0300						0.5	0.7		0.5					
0430				0.6		0.6	0.7		0.6					
0600				0.5			0.6		1.0				0.9	
0730			0.4	0.5					1.1				0.7	
0900			0.6	0.4		0.6								
1030			1.2			0.5						1.5	0.6	
1200			1.3					0.5		1.5		1.4	0.5	
1330	0.4		1.3					0.6	1.1	1.4				
1500	0.5		1.2					0.8	1.0					
1630			1.1						0.8	1.4	1.6	1.3		
1800			0.9						0.8	1.5				0.5
1930			0.6					0.8	1.0			1.3		0.6
2100								0.7	1.5		1.6	1.2		
2230		0.5				0.6	0.6			1.5	1.5	1.1		
2400	0.5	0.4	0.6	0.4	0.4	0.5	0.5	0.6	1.5	1.6	1.5	1.0	0.5	0.6

LAKE HURON, STATION H-8, 30 m. continued.

DATE	3-7	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20
TIME														
0130	0.6	1.4	1.0	0.5	0.6	0.6	0.7	1.5	1.6	1.6	1.5	0.9	1.4	1.6
0300	0.8		0.9					1.5				0.9		
0430	0.6		0.5					1.6			1.5	1.0	1.4	
0600	0.6	1.4					0.7				1.4		1.5	
0730	0.7	1.3					0.8							
0900	0.8	1.2					0.8				1.4	1.0		
1030	1.0	1.0					1.3				1.3	1.1		
1200	1.3	0.8					1.4			1.6	1.2	1.1		
1330	1.4	0.7					1.6			1.5	1.1	1.2		
1500	1.5	0.6					1.7				1.0	1.3		
1630											0.9			
1800														1.6
1930							1.7						1.5	1.7
2100							1.6						1.6	
2230						0.6	1.6							1.7
2400	1.5	0.6	0.5	0.5	0.6	0.7	1.5	1.6	1.6	1.5	0.9	1.3	1.6	1.6
DATE	3-21	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3
TIME														
0130	1.6	1.4	1.3	1.3	1.4	1.5	1.5	1.2	1.1	1.0	0.9	1.0	0.9	1.0
0300		1.4				1.6		1.2						
0430		1.3					1.5	1.1	1.1					
0600							1.4		1.0					
0730														
0900														
1030	1.6												0.9	
1200	1.5						1.4			0.9			1.0	
1330	1.4						1.3			1.0				
1500					1.4									
1630				1.3	1.5									
1800				1.4		1.6								
1930						1.5	1.3							
2100							1.2					1.0		
2230										1.0		0.9		
2400	1.4	1.3	1.3	1.4	1.5	1.5	1.2	1.1	1.0	0.9	1.0	0.9	1.0	1.0
DATE	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17
TIME														
0130	1.0	1.1	1.3	1.3	1.3	1.3	1.3	1.4	1.7	1.7	1.7	1.8		
0300		1.2	1.4								1.7			
0430								1.4			1.8			
0600								1.5						
0730								1.6						
0900		1.2	1.3											
1030		1.4												
1200												1.8		
1330												End of		
1500		1.4								1.7		Record.		
1630		1.2					1.3			1.6				
1800	1.0						1.4	1.6						
1930	1.1							1.7						
2100								1.8	1.6					
2230									1.7					
2400	1.1	1.2	1.3	1.3	1.3	1.3	1.4	1.8	1.7	1.7	1.8			

LAKE HURON - STATION H-9, Depth 10 m.

Start 2 November 1965, 0922 EST, end 14 April 1966, 0845 EST.

Instrument serial no. 128. Initial cal. Indet., Final cal. -1.0°C.

DATE	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11	11-12	11-13	11-14	11-15
TIME														
0130		7.9	7.9	7.9	7.9	7.8	7.8	7.7	7.3	7.3	7.3	7.3	7.0	6.7
0300			7.8					7.6						6.8
0430			8.0								7.3	7.3	7.0	
0600											7.2	7.2	6.6	
0730											7.1		6.7	
0900	7.7										7.2			
1030	7.8											7.2		
1200	7.9										7.2	7.1		
1330											7.0	7.1		
1500							7.8				7.2	7.0		
1630							7.7				7.3	6.9		
1800								7.6						6.8
1930								7.5				6.9		6.9
2100								7.4		7.3		7.2		6.9
2230										7.5		7.1		6.8
2400	7.9	7.9	8.0	7.9	7.9	7.8	7.7	7.4	7.3	7.4	7.3	7.1	6.7	6.8
DATE	11-16	11-17	11-18	11-19	11-20	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28	11-29
TIME														
0130	6.8	6.6	6.0	5.8	5.8	5.8	5.7	5.8	5.8	5.9	5.9	5.8	5.1	5.2
0300	6.7	6.5	6.0				5.6	5.8				5.7	5.0	5.3
0430		6.4	5.9					5.9			5.9	5.3	5.1	5.3
0600											5.8	5.5	5.2	5.4
0730												5.4		5.5
0900												5.7		
1030			5.9								5.8	5.8		
1200			5.8								5.7			
1330							5.6						5.2	
1500							5.7	5.9	5.8		5.7		5.3	5.5
1630		6.4						6.0	5.9		5.6	5.8	5.2	5.4
1800		6.3									5.7	5.7	5.3	5.3
1930		6.2				5.8					5.8	5.7	5.2	
2100		6.2				5.7		6.0				5.4		
2230		6.1						5.9				5.4		
2400	6.7	6.0	5.8	5.8	5.8	5.7	5.7	5.8	5.9	5.9	5.8	5.2	5.2	5.3
DATE	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13
TIME														
0130	5.3	5.2	5.0	5.2	5.3	5.1	4.9	5.0	5.0	5.0	5.1	5.1	4.8	4.4
0300			5.0	5.2										
0430		5.2	5.1	5.1						5.0				
0600		5.1		5.0		5.1				5.1				
0730					5.3	5.0								
0900				5.0	5.1							5.1		
1030				4.8	5.1							5.0		
1200		5.1		4.7	4.9								4.8	
1330		5.0		4.5									4.7	
1500				5.0										
1630			5.1	5.3								5.0	4.7	
1800			5.2	5.3	4.9	5.0						4.9	4.6	
1930			5.2	5.1	5.0	4.9							4.4	
2100			5.1	5.3	5.1									
2230														
2400	5.3	5.0	5.1	5.3	5.1	4.9	4.9	5.0	5.0	5.1	5.1	4.9	4.4	4.4

LAKE HURON, STATION H-9, 10 m. continued.

DATE	12-14	12-15	12-16	12-17	21-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27
TIME														
0130	4.5	4.2	5.1	4.4	4.7	3.4	3.5	3.8	4.2	3.3	3.9	3.7	3.3	3.1
0300	4.6	4.2	5.1	4.4				3.7	3.8		3.9	3.4	3.3	
0430	4.5	4.3	5.0	4.3	4.7			4.0	3.4	3.3	4.2	3.3	3.4	
0600	4.3	4.3		4.2	4.6		3.5	3.9	3.5	3.5	4.3	3.3	3.7	3.1
0730	4.3	4.4		4.3	4.4	3.4	3.4	3.8	3.5	3.6		3.0	3.9	2.9
0900	4.2	4.5		4.5	4.3	3.5		4.0	3.6	3.7		3.2		
1030	4.2	4.7		4.6	4.2			4.1	3.7	3.7		3.3		
1200	4.4	4.8			4.0			4.0	3.7	3.6		3.4	3.9	
1330	4.6	4.7			3.7		3.4	3.9	3.5	3.5			3.7	2.9
1500	4.7	4.6			4.0		3.3	3.9	3.4	3.5	4.3	3.4	3.5	3.0
1630	4.2			4.6	4.2			4.0		3.8	4.4	3.3	3.3	3.0
1800				4.7	4.4			4.1					3.2	2.9
1930		4.6			4.2			4.2	3.4	3.8				3.0
2100			5.0		3.5			4.2	3.3	3.9	4.4			3.1
2230		4.9	4.8		3.4	3.5	3.3	4.1			4.3			3.3
2400	4.2	5.0	4.6	4.7	3.4	3.4	3.5	4.2	3.3	3.9	4.1	3.3	3.2	3.4
DATE	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10
TIME														
0130	3.4	2.7	2.9	3.0	3.3	2.8	2.6	3.3	2.9	3.2	3.1	2.8	2.6	2.3
0300	3.4		2.9			2.9	3.0			3.3	2.7		2.6	
0430	3.3		2.8				3.0				2.6		2.5	
0600	3.3		2.6		3.3	3.1					2.6	2.8	2.4	
0730	3.1		2.5		3.1			3.3			2.7	2.7		
0900	2.6		2.6	3.0	2.9			3.2					2.4	2.3
1030	2.5		2.6	2.9	2.8	3.1		3.1	2.9				2.3	2.4
1200		2.7	2.8		2.6	3.0		3.0	3.0					2.5
1330		2.9	2.8					2.9				2.7		2.5
1500		3.0	2.9			3.0				3.3		2.6		1.6
1630		3.0	3.0	2.9		2.9	3.0			3.4	2.7			1.4
1800		2.9		3.0	2.6	2.8	2.7		3.0	3.4	2.8			1.4
1930				3.3	2.5	2.7	2.3		3.1	3.5				1.3
2100						2.6	2.8		3.1			2.6		
2230	2.5				2.5	2.5	2.5		3.2	3.5		2.7		
2400	2.7	2.9	3.0	3.3	2.8	2.5	2.6	2.9	3.2	3.4	2.8	2.6	2.3	1.3
DATE	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24
TIME														
0130	1.4	2.3	2.3	2.2	2.4	2.4	2.4	2.4	2.5	2.5	2.4	1.6	1.5	1.6
0300		2.2		2.3	2.1						2.3			1.7
0430	1.4			2.4	1.8		2.4							
0600	2.1	2.2	2.3		1.9		2.3					1.6		
0730	2.2	2.3	2.0		2.1					2.5		1.5		
0900	2.3		1.9		2.0	2.4				2.4	2.3			
1030			1.9			2.3					2.5			
1200			1.7											
1330	2.3		1.6							2.4	2.5			
1500	2.4		1.7							2.5	2.4			
1630	2.4		1.8		2.0					2.5	2.4			
1800	2.5		1.9		2.4					2.4	2.3			
1930	2.5		2.2								2.0			
2100	2.4		2.1								1.8			
2230	2.4										1.7			
2400	2.3	2.3	2.1	2.4	2.4	2.3	2.3	2.4	2.5	2.4	1.6	1.5	1.5	1.7

LAKE HURON, STATION H-9, 10 m. continued.

DATE TIME	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7
0130	1.8	1.5	1.4	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.9
0300														
0430														
0600														
0730	1.8													1.9
0900	1.7													1.8
1030	1.5												1.6	1.8
1200													1.7	1.7
1330		1.5											1.7	1.7
1500		1.4											1.8	1.6
1630													1.9	
1800													1.9	
1930													1.8	
2100				1.5				1.6					1.9	
2230				1.4				1.5						
2400	1.5	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.9	1.6
DATE TIME	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21
0130	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.5
0300														
0430														
0600														
0730														
0900														
1030									1.6					
1200									1.5					
1330														
1500														
1630														
1800								1.6						
1930								1.5						
2100														
2230														
2400	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5
DATE TIME	2-22	2-23	2-24	2-25	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5	3-6	3-7
0130	1.7	1.7	1.6	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	1.7	1.7	1.6	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8

LAKE HURON, STATION H-9, 10 m. continued.

DATE	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21
TIME														
0130	1.8	1.8	1.8	1.9	1.9	2.0	1.9	2.1	2.1	2.1	2.2	2.3	2.4	2.4
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	1.8	1.8	1.8	1.9	1.9	2.0	1.9	2.1	2.1	2.1	2.2	2.3	2.4	2.4
DATE	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4
TIME														
0130	2.5	2.3	2.3	1.9	2.0	1.9	2.0	2.1	2.1	2.2	2.3	2.3	2.3	2.6
0300									2.2					
0430														
0600	2.5												2.3	
0730	2.4												2.4	
0900														
1030														
1200													2.4	
1330													2.5	
1500			2.3											
1630			2.2											
1800			2.1											
1930	2.4		2.0											
2100	2.3		2.0											
2230			1.9											
2400	2.3	2.3	1.9	1.9	2.0	1.9	2.0	2.1	2.2	2.2	2.3	2.3	2.5	2.6
DATE	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18
TIME														
0130	2.8	2.9	3.0	3.0	3.0	3.1	3.3	3.3	3.4	3.4				
0300														
0430														
0600														
0730										3.4				
0900	2.8					3.1				End of				
1030	2.9					3.2				Record.				
1200														
1330														
1500														
1630						3.2		3.3						
1800						3.3		3.4						
1930														
2100					3.0									
2230		2.9			3.1									
2400	2.9	3.0	3.0	3.0	3.1	3.3	3.3	3.4	3.4					

LAKE HURON - STATION H-9, Depth 15 m.

Start 2 November 1965, 0922 EST, end 14 April 1966, 0845 EST.

Instrument serial no. 152. Initial cal. Indet., Final cal. -1.0°C.

DATE TIME	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11	11-12	11-13	11-14	11-15
0130		7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.5	7.3	7.3	7.3	7.2
0300									7.5					
0430													7.3	
0600													7.2	
0730										7.5			7.1	
0900	7.3									7.3			7.2	
1030	7.4													
1200	7.5													
1330	7.6													
1500													7.2	
1630													7.1	
1800													7.2	
1930														
2100														
2230														
2400	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.5	7.3	7.3	7.3	7.2	7.2
DATE TIME	11-16	11-17	11-18	11-19	11-20	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28	11-29
0130	6.8	6.7	6.7	6.7	6.6	6.5	5.7	5.7	5.7	5.7	5.6	5.4	5.6	5.5
0300				6.7		6.4						5.4		
0430				6.6		6.3					5.6	5.5		
0600	6.8					6.2					5.5			
0730	7.0					6.1								
0900					6.6	5.9							5.6	
1030					6.5						5.5		5.5	
1200						5.9					5.4			
1330						5.8								
1500												5.5		
1630	7.0											5.6		
1800	6.8									5.7				
1930										5.6				
2100	6.8					5.8								
2230	6.7					5.7								
2400	6.7	6.7	6.7	6.6	6.5	5.7	5.7	5.7	5.7	5.6	5.4	5.6	5.5	5.5
DATE TIME	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13
0130	5.5	5.5	5.4	5.3	4.6	4.6	4.6	4.6	4.6	4.6	4.5	4.6	4.4	4.4
0300										4.6				
0430										4.5				
0600														
0730				5.3								4.6		
0900				5.2								4.5		
1030			5.4	5.0								4.3		
1200			5.1	4.9								4.2		
1330				4.8								4.0		
1500				4.6							4.5	4.3		
1630				4.5							4.6	4.5		
1800		5.5	5.1	4.6								4.4		
1930		5.4	5.3											
2100														
2230														
2400	5.5	5.4	5.3	4.6	4.6	4.6	4.6	4.6	4.6	4.5	4.6	4.4	4.4	4.4

LAKE HURON, STATION H-9, 15 m. continued.

DATE	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27
TIME														
0130	4.4	4.4	4.3	4.3	4.3	4.3	4.3	4.2	3.9	3.8	3.7	3.1	3.3	3.0
0300														2.8
0430														2.8
0600														2.9
0730														3.0
0900								4.2						
1030								4.1				3.1		
1200		4.4										3.2		3.0
1330		4.3										3.2		3.1
1500										3.8		3.3		
1630								4.1		3.9	3.7			3.1
1800								4.0			2.8		3.3	3.2
1930									3.9		2.9		3.0	
2100									3.8	3.9	2.9			
2230										3.8	3.0			
2400	4.4	4.3	4.3	4.3	4.3	4.3	4.3	4.0	3.8	3.8	3.1	3.3	3.0	3.2
DATE	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10
TIME														
0130	3.2	2.7	3.1	3.1	3.5	3.6	3.0	3.1	3.6	2.6	2.8	2.6	2.5	1.6
0300		3.4			3.5		2.9			2.5	2.8	2.6		
0430		3.2			3.6					2.5	3.0	2.5		
0600		3.2						3.1		2.6	3.2			1.6
0730		3.1				3.6		3.2		2.6	3.2		2.5	1.7
0900						3.5		3.3	3.6	2.8	3.3		2.6	
1030	3.2			3.1				3.4	3.7				2.7	
1200	3.1			3.2			2.9							1.7
1330	3.0	3.1					3.0							1.8
1500	3.0	3.0						3.4	3.7					1.9
1630	2.8	3.0		3.2		3.5	3.0	3.5	3.6		3.3			2.0
1800	2.7	3.1		3.3		3.4	3.1	3.5	3.5		3.2		2.7	2.4
1930	2.6			3.4		3.3		3.6	3.4		3.1		2.2	2.5
2100	2.5			3.5		3.2			3.1		3.0		1.8	
2230	2.6					3.2			2.9		2.6		1.7	
2400	2.7	3.1	3.1	3.5	3.6	3.1	3.1	3.6	2.9	2.8	2.6	2.5	1.6	2.5
DATE	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24
TIME														
0130	2.4	2.7	2.6	2.6	1.8	2.4	2.0	1.9	1.9	1.9	2.6	1.7	1.8	1.6
0300	2.3	2.7						2.3		2.0				
0430		2.6						2.5		2.1				1.6
0600	2.3	2.6			1.8	2.4				2.1				1.7
0730	2.4	2.5			1.7	2.3				2.2				
0900		2.4				1.9				2.2	2.6			
1030		2.4				1.8				2.3	2.7		1.8	
1200		2.5				1.8				2.4			1.7	1.7
1300		2.5		2.6	1.7	1.7	2.0							1.6
1500		2.4		2.7	1.8	1.6	1.9	2.5					1.7	
1630				2.6	1.9		1.8	2.4			2.7		1.6	
1800	2.4			2.5	2.0		1.6	2.2		2.4	2.6			
1930	2.5			2.3	2.2		1.6	2.0		2.5	2.2			1.6
2100	2.6			2.1	2.2	1.6	1.7	1.9		2.5	1.9			1.5
2230				1.8	2.3	2.0	1.7			2.6	1.7			
2400	2.6	2.4	2.6	1.8	2.4	2.0	1.6	1.9	1.9	2.6	1.7	1.7	1.6	1.5

LAKE HURON, STATION H-9, 15 m. continued.

DATE	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7
TIME														
0130	1.4	1.3	0.4	1.1	1.4	1.2	0.8	0.9	1.4	1.0	1.0	1.3	1.3	1.3
0300				1.4	1.3		0.7				1.2			
0430					1.3		0.6	0.9			1.2			
0600		1.3	0.4		1.2			1.0		1.0	1.3			
0730		1.4	0.5	1.4				1.0		0.8				
0900		1.5	0.6	1.5			0.6	1.1		0.7				
1030			0.7	1.5			0.8							
1200			0.8	1.6			0.8	1.1		0.7				
1330	1.4	1.5		1.6			0.9	1.2		0.8				
1500	1.3	0.9		1.7		1.2		1.2		0.9				
1630		0.6				1.1		1.3						
1800		0.4	0.8			1.0		1.3						
1930			0.9					1.4	1.4					
2100			0.9	1.7		1.0			1.3					
2230			1.0	1.6		0.9			1.2					
2400	1.3	0.4	1.0	1.5	1.2	0.9	0.9	1.4	1.2	0.9	1.3	1.3	1.3	1.3
DATE	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21
TIME														
0130	1.3	1.6	1.6	1.6	0.6	0.4	0.5	0.6	0.5	0.1	0.1	0.1	0.1	0.1
0300					0.6	0.4								
0430					0.5	0.5								
0600														
0730	1.3													
0900	1.4			1.6		0.5			0.5					
1030				1.5		0.6			0.4					
1200									0.3					
1330				1.5				0.6	0.2					
1500				1.4				0.5	0.1					
1630	1.4			1.1	0.5									
1800	1.5			0.9	0.4									
1930	1.5			0.7										
2100	1.6													
2230				0.7										
2400	1.6	1.6	1.6	0.6	0.4	0.5	0.6	0.5	1.0	0.1	0.1	0.1	0.1	0.1
DATE	2-22	2-23	2-24	2-25	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5	3-6	3-7
TIME														
0130	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

LAKE HURON, STATION H-9, 15 m. continued.

DATE	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21
TIME														
0130	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0
0300														
0430														
0600														
0730														
0900							0.2							
1030				0.1			0.1				0.1			
1200				0.2							0.0			
1330														
1500														
1630														
1800														
1930														
2100														
2230														
2400	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
DATE	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4
TIME														
0130	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
0300														
0430														
0600														
0730														
0900														
1030														
1200														
1330														
1500														
1630														
1800														
1930														
2100														
2230				0.0										
2400	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
DATE	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18
TIME														
0130	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5				
0300														
0430														
0600														
0730											0.5			
0900											End of			
1030											Record.			
1200	0.1													
1330	0.5													
1500														
1630														
1800														
1930														
2100														
2230														
2400	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5					

LAKE HURON - STATION H-9, Depth 22 m.

Start 2 November 1965, 0922 EST, end 14 April 1966, 0845 EST.

Instrument serial no. 129. Initial cal. Indet., final cal.-0.2°C.

DATE	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10	11-11	11-12	11-13	11-14	11-15
TIME														
0130		7.6	7.7	7.7	7.6	7.6	7.6	7.5	7.3	7.1	6.8	6.9	6.8	6.8
0300			7.6							7.0				
0430		7.6	7.6							6.9				
0600		7.7	7.7							6.9				
0730										6.8				
0900	7.2								7.3					6.8
1030	7.3								7.2					6.6
1200	7.4							7.5						
1330	7.4							7.4				6.9		
1500	7.6	7.7										6.8		
1630		7.6		7.7										6.6
1800		7.7		7.6										6.8
1930									7.2					
2100							7.6		7.1		6.8			
2230							7.5				6.9			6.8
2400	7.6	7.7	7.7	7.6	7.6	7.6	7.5	7.4	7.1	6.8	6.9	6.8	6.8	6.6

DATE	11-16	11-17	11-18	11-19	11-20	11-21	11-22	11-23	11-24	11-25	11-26	11-27	11-28	11-29
TIME														
0130	6.6	6.3	6.5	6.4	6.1	5.7	5.7	5.7	5.7	5.3	5.5	5.7	5.6	5.6
0300	6.5	6.4									5.6			
0430		6.5	6.5									5.7		
0600		6.6	6.4									5.6		
0730														
0900				6.4	6.1					5.3				
1030				6.3	6.0					5.4				
1200					5.9				5.7					
1330				6.3	5.8				5.6	5.4				
1500				6.2	5.8					5.5				5.6
1630					5.7									5.5
1800											5.6			
1930											5.7			
2100	6.5								5.6		5.7			5.5
2230	6.4								5.4		5.6			5.4
2400	6.4	6.6	6.4	6.2	5.7	5.7	5.7	5.7	5.4	5.5	5.7	5.6	5.6	5.4

DATE	11-30	12-1	12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10	12-11	12-12	12-13
TIME														
0130	5.4	5.1	4.3	4.8	4.8	4.8	4.4	4.6	4.5	4.8	4.2	4.3	4.3	3.8
0300	5.5	5.2	4.4						4.2	4.8	4.2			
0430		5.5	4.6						3.8	4.7	4.3		4.3	3.8
0600	5.5	5.6	4.7						3.8	4.5			4.2	3.9
0730	5.4		4.8						4.0	4.3				3.9
0900	5.3					4.8			4.3	4.3			4.2	4.0
1030	5.2					4.7	4.4	4.6	4.6	4.1			4.1	4.1
1200	5.1						4.5	4.7		3.9			4.0	4.3
1330	5.0							4.5		4.0				
1500	5.2	5.6				4.7		4.3	4.6	4.1			4.0	4.3
1630	5.4	5.4				4.6	4.5	4.5	4.8	4.1			3.9	4.2
1800	5.3	5.3					4.6	4.6		4.2				
1930	5.4	5.1				4.6	4.5	4.7						4.2
2100	5.5	4.9				4.5	4.4	4.4						4.1
2230	5.3	4.8				4.4	4.6	4.6						
2400	4.9	4.7	4.8	4.8	4.8	4.4	4.6	4.6	4.8	4.2	4.3	4.3	3.9	4.1

LAKE HURON, STATION H-9, 22 m. continued.

DATE	12-14	12-15	12-16	12-17	12-18	12-19	12-20	12-21	12-22	12-23	12-24	12-25	12-26	12-27
TIME														
0130	4.1	4.3	4.3	4.0	3.9	3.7	3.7	3.5	3.8	4.2	3.8	3.8	2.9	3.2
0300	4.0						3.7					3.7	3.0	
0430	4.0						3.8						3.0	
0600	3.9												3.1	
0730	3.8					3.7						3.7	3.0	
0900						3.6			3.8			3.5	2.9	
1030	3.8				3.9		3.8		3.9			3.3	2.9	
1200	3.9				3.8		3.6		4.0			3.4	3.2	
1330	4.0			4.0					4.2	4.1		3.5		
1500	4.1		4.3	3.9			3.6	3.5	4.3	4.0		3.6		
1630	4.3		4.2	3.9			3.6	3.7		3.9		3.6		
1800			4.1	3.8	3.8		3.7	3.8		3.8		3.7		3.2
1930			4.1		3.7		3.8		4.3	3.7		3.3		2.9
2100			4.0				3.8		4.2			3.1		2.8
2230							3.7					3.0		2.8
2400	4.3	4.3	4.0	3.8	3.7	3.6	3.5	3.8	4.2	3.7	3.8	2.9	3.2	2.9
DATE	12-28	12-29	12-30	12-31	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10
TIME														
0130	3.3	3.6	3.4	3.2	3.6	2.7	2.8	2.6	2.6	1.6	2.7	3.0	3.2	2.7
0300	3.6		3.3	3.2		2.6	2.8		2.6	1.8		3.0	3.1	
0430	3.6			3.1		2.5	3.0		2.7	2.1		2.9	3.0	2.7
0600	3.7			3.1		2.3	3.1		2.8	2.4		2.9		2.5
0730				3.3		2.5	3.2		2.8	2.4		2.8		2.3
0900						2.7	3.3		2.9	2.5			3.0	2.1
1030						2.8				2.5			3.1	1.8
1200		3.6				2.9	3.3		2.9	2.6	2.7	2.8	3.0	
1330		3.5		3.3		2.9	3.2		2.8	2.6	2.8	2.9		
1500	3.7			3.4	3.6	2.8	3.1		2.7	2.7	2.9	3.0		
1630	3.8				3.5		3.0		2.3	2.7	3.0	3.1	2.9	1.8
1800			3.3		3.4	2.8	2.8		2.0	2.8	3.2	3.2	2.8	1.7
1930		3.5	3.2	3.4	3.3	2.9	2.7	1.7				3.3		1.6
2100		3.4		3.6	3.2	2.9	2.6				3.2			1.6
2230					3.0	2.8			1.7	2.8	3.0			1.8
2400	3.8	3.4	3.2	3.6	2.8	2.8	2.6	2.6	1.6	2.7	2.9	3.3	2.8	1.8
DATE	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18	1-19	1-20	1-21	1-22	1-23	1-24
TIME														
0130	2.0	1.5	1.8	1.9	2.6	1.8	2.7	2.0	1.9	1.8	2.0	1.4	0.6	1.8
0300	2.1	1.8	1.7	1.9	2.5	1.9		1.8		1.9	2.0	1.5	0.8	1.9
0430	2.3	1.8	1.6	1.8	2.3	2.0	2.7			1.9	1.8	1.6	0.9	2.1
0600	2.5	2.0		1.5	2.0		2.8			2.0	1.8	1.7	0.9	2.1
0730	2.4	2.2	1.6	1.3	1.9	2.0				2.1	1.7	1.7	1.0	2.0
0900	2.4		1.7	1.6	1.9	2.3				2.1	1.6	1.3	1.1	2.0
1030	2.5		2.0	1.9	1.8	2.4				2.2	1.6	0.8	1.3	2.2
1200	2.6	2.2	2.2	1.7		2.3	2.8		1.9	2.3	1.5	0.5		2.0
1330	2.4	2.1		2.0		2.4	2.9		1.8	2.2	1.5	0.3	1.3	1.9
1500	2.2		2.2	2.5		2.4	3.0			2.0	1.4	0.3	1.4	1.8
1630	2.0	2.1	2.1	2.6		2.5	3.0	1.8				0.4	1.6	1.6
1800	1.9	2.0	2.0	2.7	1.8	2.5	2.9	1.9		2.0		0.5	1.7	1.3
1930	1.8	2.0			1.9	2.6	2.8			1.9	1.4	0.6	1.8	1.2
2100		1.9		2.7		2.7				1.9	1.3	0.6		1.4
2230	1.8	1.9	2.0	2.6			2.5			1.8		0.4		1.5
2400	1.4	1.8	1.9	2.6	1.9	2.7	2.3	1.9	1.8	2.0	1.3	0.4	1.8	1.6

LAKE HURON, STATION H-9, 22 m. continued.

DATE	1-25	1-26	1-27	1-28	1-29	1-30	1-31	2-1	2-2	2-3	2-4	2-5	2-6	2-7
TIME														
0130	1.6	1.1	1.0	1.5	1.1	1.3	1.4	1.3	1.3	2.0	2.1	2.0	1.3	0.3
0300	1.5		1.0	1.5	1.0	1.4	1.3			2.1			1.2	
0430	1.4	1.1	1.1	1.6	0.9	1.5	1.3				2.1		1.1	
0600	1.4	1.0		1.6	0.8	1.5	1.4				2.0	2.0	0.9	
0730	1.3	0.9		1.5		1.6	1.4		1.3			1.9	0.8	
0900	1.4	0.9	1.1	1.5			1.3		1.4				0.7	0.3
1030	1.5	0.8	1.2	1.4	0.8				1.5	2.1			0.4	0.4
1200	1.6	0.7	1.2	1.4	0.9				1.6	2.2				0.4
1330		0.8	1.3	1.3						2.3		1.9		0.5
1500	1.6		1.4	1.3	0.9	1.6			1.6	2.2		1.8		0.5
1630	1.5		1.3	1.4	0.8	1.5			1.7	2.1		1.8		0.6
1800	1.4	0.8	1.1	1.4	0.8				1.8	2.2	1.9	1.7		0.7
1930	1.4	0.9		1.3	0.9					2.1	1.8	1.6	0.4	0.8
2100	1.3	1.0	1.1	1.2	1.0	1.5				2.0	1.9	1.5	0.3	
2230	1.3	1.1	1.3		1.3	1.4			1.8	2.0	2.1	1.4		
2400	1.2	1.1	1.4	1.2	1.3	1.4	1.3	1.3	1.9	2.1	2.0	1.3	0.3	0.8
DATE	2-8	2-9	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21
TIME														
0130	0.8	0.7	0.8	0.1	0.1	0.1	0.1	0.1	0.3	0.2	0.3	0.3	0.3	0.4
0300			0.7											0.4
0430			0.6					0.1		0.2				0.5
0600			0.7					0.2	0.3	0.3				0.5
0730			0.6					0.3	0.4	0.2				0.6
0900		0.7	0.5							0.1				
1030		0.8	0.4							0.1				0.6
1200			0.3							0.2				0.7
1330			0.1											
1500										0.2				
1630									0.4	0.3				0.7
1800									0.3					0.8
1930														
2100	0.8													
2230	0.7													
2400	0.7	0.8	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.8
DATE	2-22	2-23	2-24	2-25	2-26	2-27	2-28	3-1	3-2	3-3	3-4	3-5	3-6	3-7
TIME														
0130	0.8	0.6	0.5	0.8	0.3	0.4	0.6	0.7	0.6	0.3	0.3	0.3	0.0	0.0
0300			0.6						0.5					
0430		0.6												
0600	0.8	0.5		0.8										
0730	0.7	0.4	0.6	0.7	0.3									
0900		0.3	0.7	0.6	0.4				0.5					
1030			0.7	0.5					0.4					
1200		0.3	0.8	0.4								0.3		
1330	0.7	0.4		0.3								0.4		
1500	0.6											0.3		
1630		0.4										0.2		
1800	0.6	0.5				0.4		0.7						
1930	0.7	0.6				0.5		0.6				0.2		
2100	0.6	0.6						0.6	0.4			0.1		
2230		0.8				0.5		0.5	0.3					
2400	0.6	0.4	0.8	0.3	0.4	0.6	0.6	0.5	0.3	0.3	0.3	0.1	0.0	0.0

LAKE HURON, STATION H-9, 22 m. continued.

DATE	3-8	3-9	3-10	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21
TIME														
0130	0.0	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2
0300														
0430														
0600														
0730														
0900														
1030					0.1									0.2
1200					0.2						0.3			0.3
1330					0.2						0.2			
1500					0.3									
1630														
1800														
1930														
2100	0.0													
2230	0.1													
2400	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3
DATE	3-22	3-23	3-24	3-25	3-26	3-27	3-28	3-29	3-30	3-31	4-1	4-2	4-3	4-4
TIME														
0130	0.3	0.4	0.4	0.5	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.6
0300	0.4								0.5					
0430				0.5							0.4			
0600				0.4							0.5			
0730														
0900										0.5				
1030								0.3		0.4			0.5	
1200								0.4					0.6	
1330														
1500									0.5					
1630		0.4		0.4					0.6					
1800		0.5		0.3										
1930			0.4						0.6					
2100			0.5						0.5					
2230									0.5					
2400	0.4	0.5	0.5	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.6	0.6
DATE	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18
TIME														
0130	0.6	0.6	0.6	0.6	0.8	0.8	0.8	0.8	0.8	0.9				
0300														
0430				0.6										
0600				0.7										
0730	0.6								0.8	0.9				
0900	0.7								0.9	End of				
1030										Record.				
1200														
1330														
1500														
1630														
1800														
1930				0.7										
2100	0.7			0.8										
2230	0.6													
2400	0.6	0.6	0.6	0.8	0.8	0.8	0.8	0.8	0.9					